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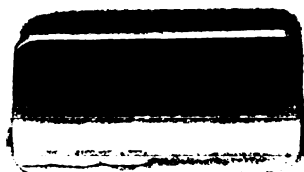
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State Capitol at Bismarck as it Now Appears,

SEVENTH BIENNIAL REPORT

OF THE

Debt.
Commissioner of Agriculture
and Labor

OF THE

GOVERNOR OF NORTH DAKOTA

FOR THE

TERM ENDING JUNE 30, 1902



BISMARCK, N. D.
TRIBUNE, STATE PRINTERS AND BINDERS
1903

General

LETTER OF TRANSMITTAL.

OFFICE OF THE COMMISSIONER OF AGRICULTURE AND LABOR. }
BISMARCK, June 30, 1902. }

HON. FRANK WHITE,

Governor of the State of North Dakota:

I have the honor to herewith transmit to you and through you to the legislature the seventh biennial report of the commissioner of agriculture and labor.

Respectfully submitted,

R. J. TURNER,
Commissioner.

INTRODUCTORY

Judging from the provisions of the Code the legislature at the birth of statehood held the idea that the department of agriculture and labor would doubtless become one of no small importance in this state. At that time an appropriation somewhere near commensurate with the needs of the department was supplied and used doubtless to the best advantage by the commissioners. But as times were hard in the nation and a cloud of depression was upon the entire country, the expenditures brought forth but meager returns. As a result each succeeding legislature pruned down the appropriation until in 1901 the last vestige of it was wiped out and the department left without a dollar to carry out the provisions of section 127, article 6, of the Code, which provides as follows:

"Duty to Promote Immigration.—He (the commissioner) shall look after and devise means to advance the immigration interests of the state and to encourage and promote the permanent settlement and improvement of all sections of the state. He shall have charge of the preparation in manuscript, the publication and distribution by mail and otherwise of any and all documents and articles of reading matter designed to convey correct and full information on all matters pertaining to the growth and development of the agricultural, manufacturing, commercial and mining interests of the state. He shall attend to all correspondence relating to immigration and shall do all in his power by letter by the use of published printed matter and through personal effort to secure the most liberal and extensive advertisement of the resources and opportunities of the state. It shall be his aim to induce the investment of capital in agriculture, in mining and in different industrial and mercantile pursuits, and to facilitate the coming to the state of persons and families seeking permanent location for new homes. He shall procure the most favorable rates of fare obtainable from railroads and other transportation companies for persons coming to the state, and where such persons have formed a colony or party of considerable number, he shall be required to visit them, if necessary, and do all in his power to direct and assist them in making the necessary arrangements for transportation and in reaching the state."

Without funds I have found it practically impossible to fulfill all of the requirements of this section and have therefore been unable to be of much assistance in the great immigration movement which has been going on in the state during the past two years. Through the assistance of Governor White I have gotten out several thousand maps containing crop statistics and other matter showing the resources of the state, but the supply has fallen greatly behind the demand. In the past year thousands of inquiries for statistics and

official literature have been received, to the majority of which I have been compelled to say that the great state of North Dakota has failed to provide means for enlightening the world as to her possibilities, her desirability as a home-making country and the many opportunities here presented for business enterprises. While all of these facts have been presented in attractive shape by the numerous real estate dealers of this and other states, the need of official confirmation of the statements made is manifest from the deluge of inquiries sent to this office. It is an injustice to the state that the commissioner of agriculture should be hampered in the performance of this important part of his duties through lack of funds, and I trust the coming legislature will recognize the necessity of the situation and provide means for carrying on this work as it should be done.

In addition to his other duties the commissioner of agriculture is expected to procure accurate statistics as to the acreage and yield of all the crops, number of cattle, horses, etc., and information pertaining to the condition, growth, development and resources of the state by counties. Under the present law it is practically impossible to obtain statistics of this nature that are at all accurate for two reasons: Among the farmers there is a strong prejudice against giving the desired information, and inasmuch as the duty of collecting the information is placed upon the assessors without extra compensation they are, as a rule, exceedingly lax in the performance of this duty. I am of the opinion that assessors should be paid for this work, and that a penalty should be provided for its non-performance. If the legislature will do its share in this matter I will guarantee a report next year of crop and stock and business conditions that will be approximately correct and of great value to the state.

The duties of this office were doubled in February, 1901, by the transfer from the secretary of state's office of the department of brands. No extra compensation for clerk hire accompanied the transfer and as a result there has been ample employment for the office force. Nearly 8,000 brands have been recorded since statehood, about 2,000 of them being filed since the records were transferred to this office. In the majority of cases the brands are filed by the small farmers of the western part of the state, but in the last year the number from the central and eastern sections demonstrates that North Dakota farmers are rapidly engaging in the stock business in connection with agricultural pursuits. In this connection it may be well to state that North Dakota cattle are prime favorites in the cattle markets where the large packers secure their supplies and it is to the credit of the state that the highest priced cattle ever sold on the Chicago market came from this state. The facility with which corn is grown here, and the certainty of a crop when seasonably planted and properly cared for, is rapidly revolutionizing the cattle industry. Formerly cattle for the market were sold and taken to Iowa for "finishing." Now our farmers are awak-

ening to the fact that cattle can just as well be "finished" here on native corn, millet and other grains and the entire profits of the business saved for the home grower. When this practice becomes general a vast addition to the wealth of the state will be realized.

The days of exclusive wheat farming are rapidly passing away. Farmers that five years ago were wedded to small grain are now paying more attention to corn, dairying and fruit raising. The Tri-State Farmers' conventions and Farmers' institutes are largely responsible for this beneficent change of sentiment. The additional profit of diversified farming and rotation of crops has been so forcibly impressed upon the minds of those so fortunate as to be able to attend these meetings that the old prejudice against products that require cultivation is rapidly disappearing and in its place is developing a tendency to pay more attention to the scientific principles of agriculture and a desire to profit by the experiments and experience of the workers in the agricultural colleges and advanced farmers.

In this connection I earnestly recommend a liberal appropriation for farmers' institutes, in the belief that they have done incalculable good in the past and are the best means of laying before the farmers the most approved agricultural methods and form the best medium for exchange of thought and experience. In mentioning these institutes it would be unfair not to congratulate Professor E. E. Kaufman, assistant state dairy commissioner, and the other able members of the agricultural college faculty, upon their splendid work in the farmers' institutes and for the cause of agriculture generally. The value of the agricultural college to the state is being demonstrated more clearly as the effect of the education there imparted to farmers' sons and daughters becomes apparent in the home farms, and the annual visits of the farmers themselves to the college has swept away the prejudice once existing in some quarters against the practicability of theoretical and experimental farming.

It has been impossible to ascertain the amount of coal mined in the state or gather any way near complete statistics upon this subject. There are about a dozen mines in the state under fair development, but the industry is yet in its infancy. In addition to these mines, which ship coal to other parts of this and other states, there are innumerable small mines opened by farmers on their own property, which supply a good part of the demand in their locality, but from whom it has so far been impossible to glean statistics. The coal deposits of the state are beginning to attract the attention of capitalists from other states as is attested by letters received by this office and the presence from time to time of examiners for outside people who are now pretty well impressed with the value of lignite coal as a fuel and the home consumption is doubling yearly. There is also a steady and increasing demand for the coal from other states and coal mining bids fair to soon be one of the staple industries of the state.

In speaking of the mineral resources of North Dakota the many valuable clays underlying the fertile top-soil should not be lost sight

of. A geologist of eminence, who has carefully examined the clays in several parts of the state, predicts that the day will come when the clay products of North Dakota will equal in value all the grains raised on the surface. While this seems a strong statement to the layman, it is well known that our pottery, fire and cement clays are equal to any in the world. As yet these products are but little utilized. The fire brick produced at the Dickinson kilns finds a ready market and the factory is taxed to its utmost to supply its orders, its business only being bounded by its capacity to manufacture. The Dickinson company obtains its fire clay and coal from the same bank, thus having the raw material and the fuel to burn it at hand and at the cheapest cost. In the same clay bank is found an inexhaustible supply of the finest pottery clay, but as yet this product has not been utilized, except for the manufacture of samples, which compare favorably with the stone chinaware of the eastern potteries. In Pembina county cement works have been established and the finest grades of Portland and hydraulic cement placed upon the market. The demand for these products is greater than the present supply, but extensive additions to the works have been made and the output the coming year will be largely increased. In every section of the state brick clay of the best quality is found and from it building brick of various colors, from bright red to cream white are manufactured at small cost. It is this plentitude of substantial material which accounts for the splendid brick buildings seen in even our small towns, as well as in the cities. The finest vitrified brick are also made from North Dakota clay, and in time this product will supersede the cedar blocks now commonly used in the larger towns. In some sections of the state a good quality of sandstone is found and used in the buildings to fine advantage. The common boulders of the prairies, when cut, make a beautiful building stone and have been very extensively used.

It is sad commentary on the wisdom of North Dakota farmers to be compelled to state that but a fraction of the vegetables used in the state are home products. Investigation leads me to believe that fully 60 per cent of the vegetables sold by the merchants are imported from other states. This is true also of poultry and eggs. Probably no soil on earth produces finer vegetables than this of ours, nor with so little work to the raiser. No fertilizers are necessary, a ready and steady market is at hand and the demand from other states warrants sale for anything raised in this line if the producer shows the energy to look for it. Here is a field for the eastern market gardener certain of prosperity for him from the first crop. The few gardeners who are engaged in raising celery and other market delicacies quickly sell all their produce at the highest prices. The plentitude of grain about the farm makes poultry raising easy and profitable. The dry atmosphere assures health and growth to the young chicks and turkeys and the market is always ready to take all the birds that are brought in.



Northern Pacific Depot at Bismarck—Built of Concrete Made of Chipped White Marble, Inside Finish Tessara and Mosaic.



State Capitol Building as Completed by Architect's Plans.

state and it is astonishing that more attention is not paid to this class of culture. In several places apple growing has been carried on for some years. Some of the farmers have succeeded down with fruit, so much so that they had as many trees growing this year, many of them hardier varieties. Menberg and Peerless, have been raised last year, many of them to the introduction of others. The limbs had to be supported by the Duchess of soundness and keeping quality, but their success will here, also plums and cherries. North Dakota apples considerable progress has been made from disease and remarkable for raising. The great quantities. All kinds of crab apples has been the lack.

In the past two years in

There has been the lack of capital for the building of factories. In saccharine qualities the North Dakota is equal to the best Nebraska or Minnesota product. In various parts of the state proposition has been made and it is hoped that next year will see the erection of so desirable an institution. Tons of the finest straw in the world annually goes to this state. Nowhere could paper mills be maintained so cheaply as here, and it is hoped steps will be taken next year to induce manufacturers of this product in our possibilities in this direction.

Warren
Wells
William

potato growing becomes a staple supply at remunerative prices starch factories at heretofore industries of this kind have failed through lack of raw material purchasable at a price not to exceed 25 cents a bushel. The starch manufactured in this state has found a ready market and has been noted for its high quality. There is a fine opening in the western part of the state for a new mill. There is the heart of the sheep industry and a steady supply of all grades of fleeces would be assured. In conclusion I regret that the following report is not as complete as it should be, for the reasons stated. The products of the sheep, particularly in the stock industry, as shown in this report are short of the actual truth, the number of cattle, horses, sheep and probably being one-third, at least, more than shown by these figures. I question the amount of sales of live stock, as given

I am glad to report a growing tendency of North Dakota farmers to engage in pork raising. Since the corn production has become assured this branch of the animal industry has largely increased. Wherever carried on extensively the raiser reports enormous profits and quick sales for all pork produced.

Small fruits of every variety grow luxuriously in all parts of the state and it is astonishing that more attention is not paid to this class of culture. In several places apple growing has been successfully carried on for some years. Some of the farmers had as many as two or three hundred trees growing this year, many of them loaded down with fruit, so much so that the limbs had to be supported. So far only the hardier varieties, such as the Duchess of Oldenberg and Peerless, have been raised, but their success will lead to the introduction of others. In flavor North Dakota apples cannot be excelled. They are free from disease and remarkable for their soundness and keeping qualities. All kinds of crab apples thrive here, also plums and cherries.

Considerable progress has been made in the past two years in sugar beet raising. The greatest trouble so far encountered in this industry has been the lack of factories to consume the product and the failure of the grower to plow deep enough for best results. But this latter comes from inexperience and would soon disappear if the beets were taken to a factory. In saccharine qualities the North Dakota sugar beet is equal to the best Nebraska or Minnesota product and the coming of capital for factory building alone retards the progress of this great industry. In various parts of the state propositions for the building of factories have been made and it is hoped that another year will see the erection of so desirable an institution.

Millions of tons of the finest straw in the world annually goes to waste in this state. Nowhere could paper mills be maintained so cheaply as here, and it is hoped steps will be taken next year to interest manufacturers of this product in our possibilities in this direction.

When potato growing becomes sufficiently general to assure a steady supply at remunerative prices starch factories will dot the land, but heretofore industries of this kind have failed through lack of the raw material purchasable at a price not to exceed 25 cents per bushel. The starch manufactured in this state has found a ready market and has been noted for its high quality.

There is a fine opening in the western part of the state for a woolen mill. There is the heart of the sheep industry and a steady supply of all grades of fleeces would be assured.

In conclusion I regret that the following report is not as complete as it should be, for the reasons stated. The products of the state, particularly in the stock industry, as shown in this report are far short of the actual truth, the number of cattle, horses, sheep and hogs probably being one-third, at least, more than shown by these figures. Beyond question the amount of sales of live stock, as given

NUMBER OF FARMS AND ACREAGE, 1901.

County	1901		
	Total No. Farms	Total No. Acres Under Cultivation	Total No. of Acres in Farms Cultivation and uncultivated
Barnes.. . . .	1,402	431,757	602,518
Benson.. . . .	1,150	187,248	301,728
Billings.. . . .	.....	.....	.....
Bottineau.. . . .	1,175	154,387	298,486
Burleigh.. . . .	520	29,859	76,711
Cass.. . . .	2,207	811,707	893,116
Cavalier.. . . .	2,118	247,153	463,129
Dickey.. . . .	816	165,446	323,314
Eddy.. . . .	518	108,044	194,305
Emmons.. . . .	604	53,285	145,000
Foster.. . . .	675	151,374	168,373
Grand Forks.. . . .	2,020	549,478	690,363
Griggs.. . . .	765	206,225	280,914
Kidder.. . . .	179	24,055	54,801
LaMoure.. . . .	700	178,931	281,749
Logan.. . . .	358	23,080	69,315
McHenry.. . . .	600	40,606	133,243
McIntosh.. . . .	674	93,922	218,249
McLean.. . . .	584	44,209	206,614
Mercer.. . . .	283	20,699	81,311
Morton.. . . .	1,036	72,299	293,253
Nelson.. . . .	1,170	228,312	361,019
Oliver.. . . .	162	8,143	37,295
Pembina.. . . .	1,774	396,347	527,109
Pierce.. . . .	1,029	108,407	208,975
Ramsey.. . . .	1,100	236,226	403,037
Ransom.. . . .	842	172,326	256,830
Richland.. . . .	1,809	387,609	516,609
Rolette.. . . .	1,064	95,186	197,987
Sargent.. . . .	826	140,280	227,830
Stark.. . . .	496	51,960	174,576
Steele.. . . .	909	272,700	325,294
Stutsman.. . . .	927	210,645	422,442
Towner.. . . .	758	203,426	301,317
Trall.. . . .	1,300	428,004	478,310
Walsh.. . . .	2,292	448,221	604,751
Ward.. . . .	1,120	3,816	265,708
Wells.. . . .	1,131	239,852	352,180
Williams.. . . .	104	2,203	18,338
Totals.. . . .	37,331	7,127,427	11,246,856

NUMBER OF FARMS AND ACREAGE, 1902.

County	1902		
	Total No. Farms	Total No. Acres under Cultivation	Total No. of Acres in Farms Cul- tivated and Uncultivat'd
Barnes.. . . .	1,436	407,673	568,368
Benson.. . . .	1,798	191,858	305,339
Billings.. . . .	19	750	6,460
Bottineau.. . . .	1,998	218,237	301,890
Burleigh.. . . .	750	44,931	117,819
Cass.. . . .	2,200	718,148	806,492
Cavalier.. . . .	2,500	275,047	472,934
Dickey.. . . .	740	138,125	291,292
Eddy.. . . .	594	151,402	175,869
Emmons.. . . .	745	45,076	219,904
Foster.. . . .	109,863	155,545	129,011
Grand Forks.. . . .	1,905	495,349	614,696
Griggs.. . . .	794	203,639	290,977
Kidder.. . . .	241	26,329	75,782
LaMoure.. . . .	859	186,556	279,625
Logan.. . . .	348	21,022	63,783
McHenry.. . . .	906	64,970	175,017
McIntosh.. . . .	94,511	93,957	66,351
McLean.. . . .	864	74,696	299,370
Mercer.. . . .	290	39,560	90,069
Morton.. . . .	771	63,401	290,645
Nelson.. . . .	1,168	226,946	446,749
Oliver.. . . .	169	9,275	59,521
Pembina.. . . .	472	387,391	498,970
Pierce.. . . .	.....	113,847	251,456
Ramsey.. . . .	1,565	255,974	428,066
Ransom.. . . .	796	160,157	255,964
Richland.. . . .	1,290	395,933	526,372
Rolette.. . . .	1,096	99,235	208,886
Sargent.. . . .	880	143,863	436,334
Stark.. . . .	405	47,964	171,377
Steele.. . . .	929	275,732	335,199
Stutsman.. . . .	890	198,642	365,512
Towner.. . . .	793	220,853	341,804
Trall.. . . .	1,300	380,551	454,918
Walsh.. . . .	3,300	422,154	533,179
Ward.. . . .	892	59,918	187,697
Wells.. . . .	1,204	249,297	353,757
Williams.. . . .	152	1,477	12,450
Unorganized.. . . .	198	10,241	65,897
Total.. . . .	38,063	7,253,262	11,801,405

**TOTAL ACREAGE IN CROPS, INCLUDING TAME
GRASSES.**

County	1900	1901	1902
Barnes..	351,900	387,567	370,656
Benson..	145,698	180,025	177,224
Billings..	900	.....	300
Bottineau..	145,355	153,141	201,140
Burleigh..	34,927	25,300	33,510
Cass..	726,469	813,474	673,526
Cavalier..	252,229	250,398	261,382
Dickey..	162,034	128,877	105,903
Eddy..	97,038	95,793	102,693
Emmons..	54,199	23,624	43,442
Foster..	863	155,545	129,011
Grand Forks..	458,639	493,335	443,317
Griggs..	158,739	182,918	182,325
Kidder..	23,307	19,161	17,642
LaMoure..	167,561	164,860	165,348
Logan..	20,742	20,588	21,991
McHenry..	34,413	65,971	66,470
McIntosh..	94,511	93,937	66,351
McLean..	40,230	36,724	87,022
Mercer..	16,628	20,405	23,580
Morton..	61,246	65,194	56,349
Nelson..	193,704	210,705	207,040
Oliver..	7,595	8,510	9,508
Pembina..	352,411	370,236	322,578
Pierce..	94,425	107,968	133,573
Ramsey..	204,800	224,883	240,283
Ransom..	134,454	157,338	144,434
Richland..	330,402	345,800	396,702
Rolette..	86,683	90,889	93,767
Sargent..	148,298	125,276	130,710
Stark..	35,270	40,530	36,944
Steele..	246,118	254,244	246,675
Stutsman..	180,236	192,211	186,536
Towner..	180,320	185,316	177,304
Traill..	373,357	404,119	360,523
Walsh..	405,542	430,269	388,935
Ward..	15,819	50,862	45,634
Wells..	233,359	230,426	260,620
Williams..	1,472	2,019	2,096
Unorganized.. . . . .	.....	.....	8,980
Total..	6,400,002	6,767,933	6,622,027

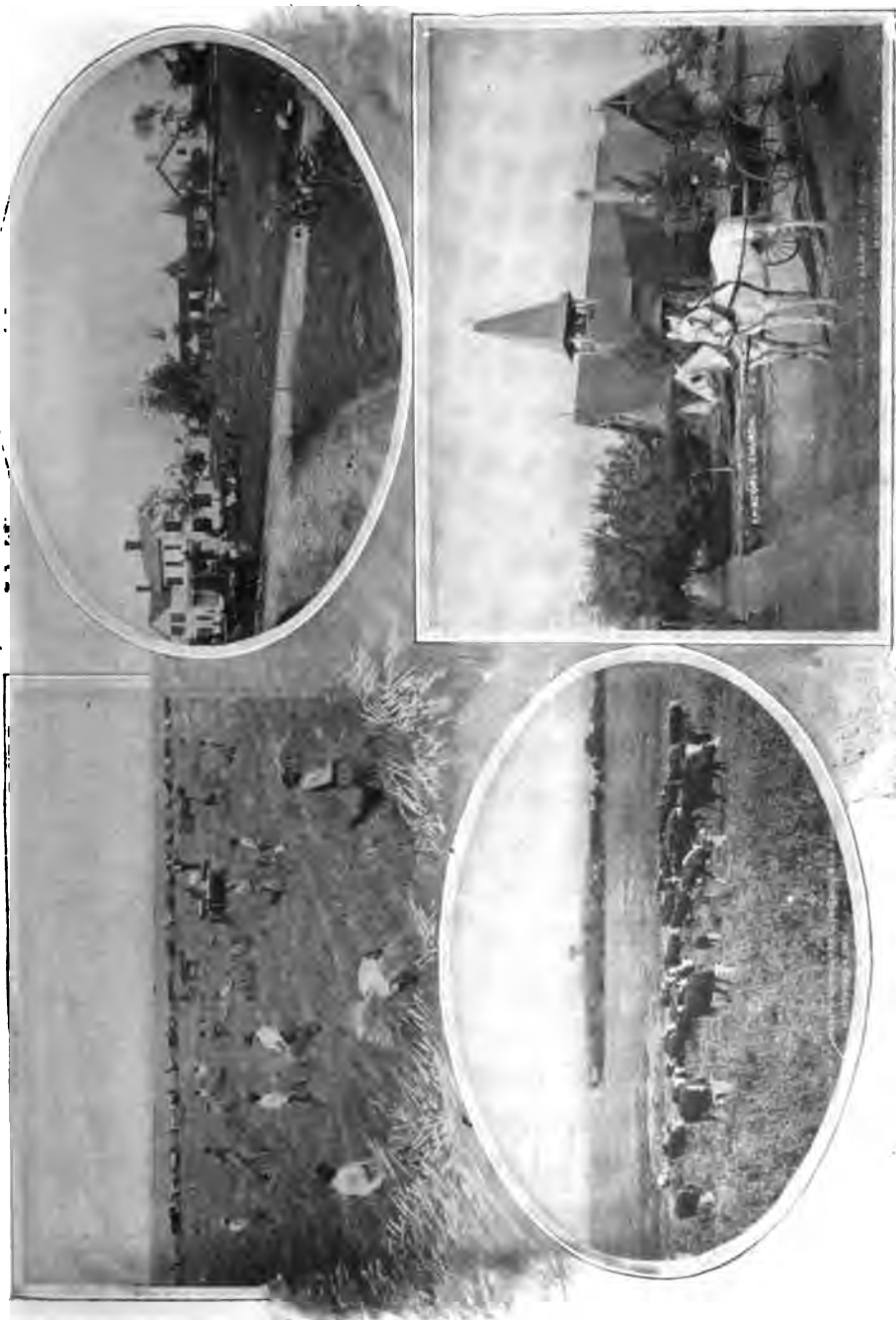
WHEAT.

County	1900				
	Acres sown	Average yield Acres sown Bushels	Acres harvested	Average yield Acres har- vested. Bushels	Total product, Bushels
Barnes..	221,565	2.51	99,257	5.6	556,158
Benson..	76,956	5.09	50,513	7.75	391,746
Billings..	.....	.....	.....	.....	.....
Bottineau..	97,932	3.97	75,167	5.17	389,152
Burleigh..	18,271	5.55	13,909	7.34	102,177
Cass..	523,983	6.92	389,404	9.31	3,628,673
Cavallier..	132,148	8.93	123,074	9.59	1,181,377
Dickey..	111,993	2.61	76,760	3.80	292,992
Eddy..	39,574	1.35	10,252	5.22	53,563
Emmons..	35,835	2.53	26,611	3.49	90,714
Foster..	43,733	3.75	16,324	10.07	164,423
Grand Forks..	333,935	3.93	167,710	7.83	1,314,650
Griggs..	93,642	1.45	22,491	6.05	136,235
Kidder..	13,166	.39	2,660	1.93	5,157
LaMoure..	115,643	1.34	40,497	3.84	155,682
Logan..	16,613	.75	5,882	2.10	12,371
McHenry..	17,511	4.07	12,138	5.87	71,338
McIntosh..	73,274	2.38	50,445	2.96	149,428
McLean..	14,176	3.11	7,683	5.75	44,204
Mercer..	11,997	2.71	9,039	3.60	32,592
Morton..	43,881	3.01	24,508	5.43	133,139
Nelson..	119,638	2.42	43,579	6.61	288,219
Oliver..	4,370	5.85	3,879	6.50	25,583
Pembina..	242,575	10.12	220,754	11.12	2,465,663
Pierce..	45,934	6.07	40,225	6.93	209,752
Ramsey..	98,128	5.62	63,202	9.25	584,901
Ransom..	83,488	3.09	60,171	4.29	258,412
Richland..	243,106	9.87	231,559	10.34	2,401,841
Rolette..	50,774	4.	33,757	6.02	203,383
Sargent..	96,776	2.68	70,483	3.68	259,760
Stark..	29,859	.81	9,942	2.77	27,633
Steele..	152,654	2.27	51,100	6.78	346,555
Stutsman..	102,501	.87	19,174	4.64	88,897
Towner..	81,897	6.72	72,570	7.59	550,536
Traill..	278,148	5.46	145,726	10.42	1,518,840
Walsh..	270,816	5.73	181,241	8.57	1,552,542
Ward..	73,246	3.96	5,780	5.06	29,096
Wells..	85,131	1.21	20,594	5.06	104,170
Williams..	1,132	1.02	60	19.3	1,158
Total	4,030,061	2.32	2,498,121	4.37	19,892,021

Note: This was the dryest year in the history of the state.

WHEAT.—Continued.

County	1901				1902 Acres sown
	Acres sown	Acres harvested	Bushels harvested	Average yield Acres har- vested. Bushels	
Barnes	213,252	185,182	1,276,232	6.89	176,574
Benson	54,091	53,556	849,350	15.84	28,014
Billings . . . . .	.....	.....	.....	.....	.....
Bottineau	103,979	104,465	2,221,053	21.26	84,832
Burleigh	20,662	20,128	248,258	12.33	17,067
Cass	440,058	398,566	4,933,586	12.37	401,545
Cavaller	125,933	125,710	2,741,577	21.80	113,693
Dickey	77,486	75,596	457,687	6.05	52,287
Eddy	27,629	26,409	358,684	13.58	14,127
Emmons	30,660	30,214	170,487	5.64	31,336
Foster	32,307	32,307	367,165	11.36	19,130
Grand Forks	287,595	283,745	4,179,243	14.72	228,952
Griggs	83,003	82,176	1,369,465	16.66	64,783
Kidder	9,288	4,862	30,891	6.35	5,731
LaMoure	104,600	101,721	935,203	9.19	97,918
Logan	12,836	9,781	102,228	10.45	13,969
McHenry	15,125	14,742	198,107	13.43	11,223
McIntosh	62,891	58,658	218,318	3.70	62,686
McLean	14,714	14,662	213,693	14.62	15,744
Mercer	10,973	10,973	129,965	11.84	12,334
Morton	33,662	32,522	367,177	11.28	33,689
Nelson	101,420	100,760	17,122,118	10.74	75,691
Oliver	4,033	3,996	51,411	12.86	4,475
Pembina	238,914	235,949	4,023,015	17.05	203,086
Pierce	36,055	36,055	517,741	14.35	28,133
Ramsey	59,455	58,302	1,011,721	17.35	40,248
Ransom	83,700	83,099	989,076	11.90	81,354
Richland	207,247	203,258	2,785,301	13.70	271,907
Rolette	47,089	44,166	709,895	16.07	32,908
Sargent	86,346	83,847	1,057,584	12.60	84,883
Stark	27,807	25,902	218,947	8.45	24,654
Steele	148,892	135,199	1,995,525	14.76	123,051
Stutsman	81,427	77,052	798,716	10.36	59,256
Towner	59,452	59,452	1,218,235	20.49	36,545
Traill	246,814	239,705	3,316,455	13.84	213,618
Walsh	227,694	219,380	3,451,119	15.27	201,947
Ward	3,702	2,764	49,849	18.03	3,438
Wells	68,158	52,148	550,776	10.56	46,001
Williams	42	42	764	18.19	133
Unorganized	4,758	4,650	32,223	6.92	5,667
Total	3,493,749	3,331,701	45,858,945	12.56	3,022,629

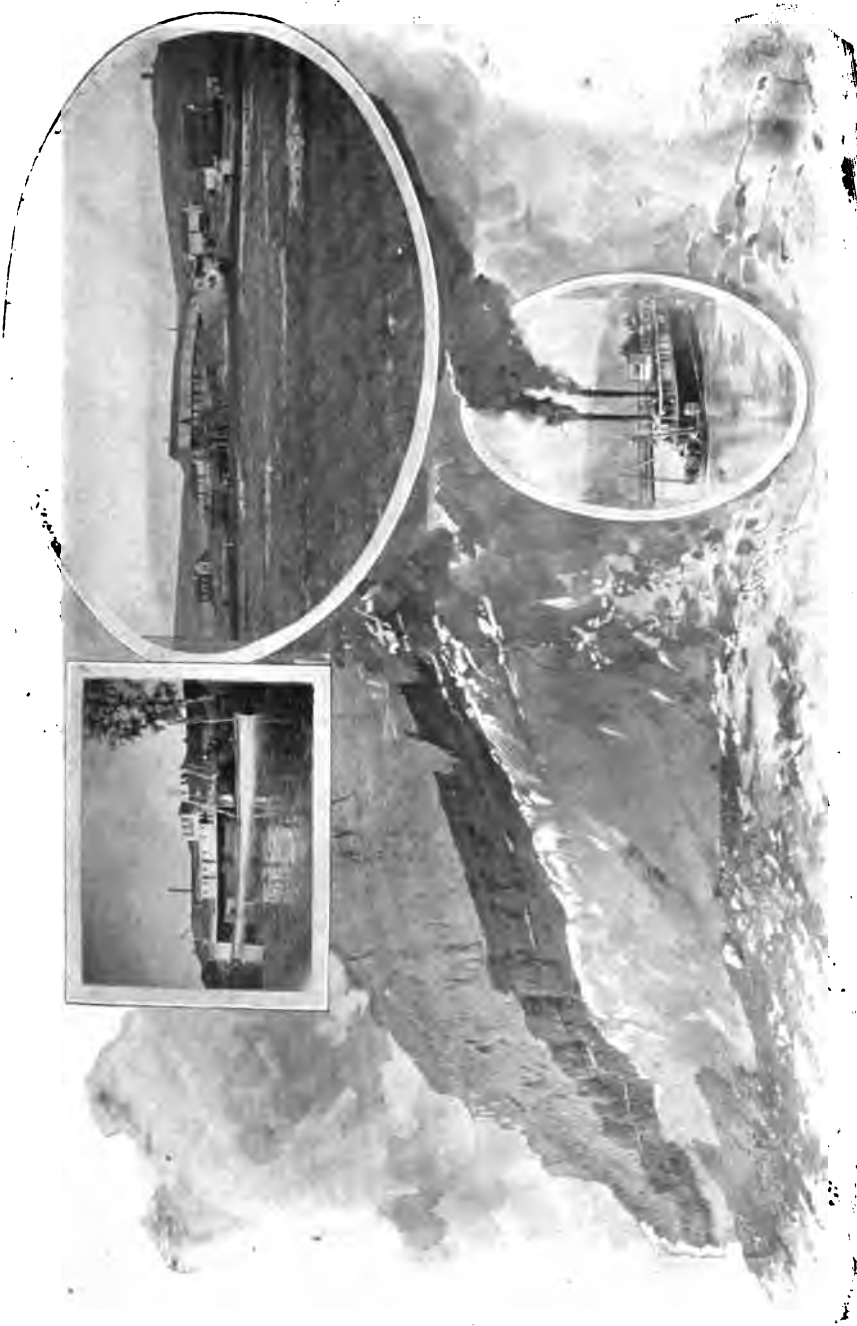


Scenes in Trail County.





Steam Plowing in North Dakota.



Coal Vein and Mine in Morton County and Missouri River Steamers Using Lignite.

FLAX

County	1900				
	Acres sown	Average yield Acres Sown Bushels	Acres harvested	Average yield Acres har- vested. Bushels	Total product, Bushels
Barnes	90,785	3.09	73,120	3.84	280,971
Benson	50,973	7.45	47,171	8.06	379,996
Billings . . . . .	.....	.....	.....	.....	.....
Bottineau	7,296	5.94	6,795	6.39	43,332
Burleigh	574	2.54	243	6.	1,458
Cass	142,196	4.38	125,613	4.96	623,174
Cavalier	19,602	7.03	17,403	7.92	137,782
Dickey	12,341	1.76	6,709	3.24	21,768
Eddy	39,113	4.28	30,593	5.47	167,438
Emmons	3,854	2.09	2,712	2.97	8,066
Foster	45,247	4.07	39,435	4.66	183,933
Grand Forks	96,384	2.6	59,302	4.22	250,303
Griggs	45,583	3.87	31,169	4.28	176,240
Kidder	5,724	1.55	2,430	1.3	3,161
LaMoure	24,145	1.87	17,560	2.68	47,014
Logan	2,910	2.65	2,133	3.62	7,702
McHenry	5,151	6.35	4,684	7.	32,719
McIntosh	7,588	1.46	3,733	2.97	11,067
McLean	7,807	3.09	6,799	3.55	24,134
Mercer	1,107	2.00	728	3.05	2,218
Morton	1,647	1.77	884	3.30	2,913
Nelson	47,606	3.88	44,044	4.19	183,813
Oliver	277	4.84	272	4.93	1,341
Pembina	45,685	4.13	35,088	5.39	188,571
Pierce	25,506	6.09	25,052	6.20	155,297
Ramsey	74,341	7.98	64,998	9.12	592,825
Ransom	47,944	1.57	28,978	2.6	75,284
Richland	39,142	4.88	33,917	5.63	190,908
Rolette	13,003	2.68	8,362	4.17	34,835
Sargent	8,765	.47	1,846	2.22	4,103
Stark	197	.23	25	1.8	45
Steele	52,542	2.5	40,804	3.22	131,145
Stutsman	54,808	2.69	37,891	3.9	147,600
Towner	53,661	6.1	48,934	6.7	237,463
Traill	46,839	5.2	35,303	6.9	243,463
Walsh	73,532	6.04	58,253	7.62	443,844
Ward	11,839	3.22	70,488	3.64	38,152
Wells	92,509	3.23	70,074	4.26	298,789
Williams . . . . .	.....	.....	.....	.....	.....
Unorganized . . . . .	.....	.....	.....	.....	.....
Totals	1,300,233	3.16	1,033,673	4.14	13,478,283

FLAX—Continued

County	1901				1902 Acres sown
	Acres sown	Acres harvested	Bushels harvested	Average yield Acr's harv- est. Bushels	
Barnes.. . . .	73,503	63,587	587,865	9.24	105,162
Benson.. . . .	70,140	69,576	913,230	13.11	102,439
Billings.. . . .	.....	.....	.....	.....	.....
Bottineau.. . . .	26,131	24,502	345,571	14.09	79,863
Burleigh.. . . .	1,106	1,047	11,559	11.00	3,906
Cass.. . . .	91,683	62,544	383,095	6.12	90,543
Cavaller.. . . .	43,377	39,569	485,384	12.01	64,953
Dickey.. . . .	9,687	6,887	46,771	6.79	8,248
Eddy.. . . .	44,221	44,101	433,864	9.83	62,573
Emmons.. . . .	4,137	3,820	21,889	5.73	20,072
Foster.. . . .	60,564	60,564	716,454	11.83	77,932
Grand Forks.. . . .	81,496	69,152	663,535	9.59	110,399
Griggs.. . . .	51,885	48,795	530,346	10.87	73,853
Kidder.. . . .	5,052	3,986	29,555	7.41	6,528
LaMoure.. . . .	20,367	18,338	115,575	6.29	25,751
Logan.. . . .	2,909	1,954	21,004	10.75	3,677
McHenry.. . . .	18,379	18,141	205,059	11.30	38,728
McIntosh.. . . .	5,731	3,298	13,507	4.59	6,312
McLean.. . . .	22,784	22,651	266,939	11.78	33,892
Mercer.. . . .	1,965	1,965	16,059	8.17	4,197
Morton.. . . .	1,433	1,341	12,266	9.14	3,102
Nelson.. . . .	60,677	58,115	644,413	11.09	85,067
Oliver.. . . .	437	434	5,637	12.98	698
Pembina.. . . .	30,128	24,529	230,574	9.40	30,639
Pierce.. . . .	47,701	47,701	546,823	11.46	75,768
Ramsey.. . . .	106,471	104,486	1,335,593	12.78	144,645
Ransom.. . . .	23,819	20,902	123,607	5.91	20,649
Richland.. . . .	28,357	24,591	170,213	6.92	22,426
Rolette.. . . .	22,290	21,709	220,239	10.14	36,179
Sargent.. . . .	9,346	7,843	63,220	8.06	11,416
Stark.. . . .	540	483	2,245	4.64	1,130
Steele.. . . .	45,915	38,176	353,028	9.22	70,959
Stutsman.. . . .	58,226	55,284	507,125	9.17	85,343
Towner.. . . .	80,552	80,552	868,632	10.78	89,912
Trall.. . . .	43,987	28,826	181,346	6.29	55,976
Walsh.. . . .	75,697	69,567	750,870	10.79	97,310
Ward.. . . .	10,174	10,174	135,878	13.36	30,921
Wells.. . . .	110,859	103,438	921,937	8.91	134,862
Williams.. . . .	24	24	201	8.37	662
Unorganized.. . . .	292	278	1,245	4.47	513
Total.. . . .	1,392,042	1,262,930	12,882,353	9.09	1,917,205

OATS.

County	1900				
	Acres sown	Average yield Acres sown Bushels	Acres harvested	Average yield Acres har- vested. Bushels	Total Product Bushels
Barnes.. . . .	43,422	2.78	22,418	5.38	120,702
Benson.. . . .	21,362	14.40	19,486	15.79	307,593
Billings.. . . .	.....	.....	.....	.....	.....
Bottineau.. . . .	18,045	12.36	16,875	13.22	223,109
Burleigh.. . . .	2,752	12.57	2,034	17.01	34,597
Cass.. . . .	86,404	10.79	65,376	14.26	932,261
Cavalier.. . . .	42,759	17.82	35,112	21.71	762,150
Dickey.. . . .	6,538	5.77	5,448	6.92	37,708
Eddy.. . . .	11,891	8.88	9,745	10.85	105,650
Emmons.. . . .	1,755	5.08	1,550	5.75	8,905
Foster.. . . .	14,377	6.58	11,074	8.55	94,642
Grand Forks.. . . .	50,775	6.79	34,768	9.92	344,998
Griggs.. . . .	20,376	30.62	11,909	52.39	623,877
Kidder.. . . .	1,557	.79	262	4.67	1,224
LaMoure.. . . .	13,554	3.16	7,123	6.02	42,884
Logan.. . . .	949	.96	300	3.03	910
McHenry.. . . .	6,004	16.1	4,549	21.25	96,680
McIntosh.. . . .	4,087	4.48	3,371	5.44	18,327
McLean.. . . .	5,030	3.95	2,538	7.83	19,885
Mercer.. . . .	3,100	3.78	1,991	5.88	11,710
Morton.. . . .	10,191	4.2	4,347	9.85	42,822
Nelson.. . . .	27,647	3.38	17,607	5.31	93,481
Oliver.. . . .	2,091	7.13	1,448	10.29	14,903
Pembina.. . . .	37,851	19.73	35,865	20.83	746,912
Pierce.. . . .	12,579	13.89	11,252	15.53	174,686
Ramsey.. . . .	23,954	15.61	21,779	17.17	373,989
Ransom.. . . .	17,018	5.13	11,396	7.66	87,276
Richland.. . . .	48,036	18.64	46,189	19.39	895,508
Rolette.. . . .	11,820	10.7	10,268	12.32	126,520
Sargent.. . . .	12,378	4.45	8,812	6.25	55,062
Stark.. . . .	6,512	.88	1,623	3.24	5,258
Steele.. . . .	26,243	4.09	14,412	7.44	107,212
Stutsman.. . . .	21,750	2.94	9,143	7.00	64,045
Towner.. . . .	22,443	15.92	22,169	16.12	357,394
Traill.. . . .	37,819	9.01	24,440	13.94	340,620
Walsh.. . . .	45,669	13.97	41,599	15.34	638,103
Ward.. . . .	3,997	10.45	3,131	13.34	41,769
Wells.. . . .	31,024	5.89	19,030	9.6	182,676
Williams.. . . .	741	18.32	543	25.00	13,578
Total.. . . .	784,501	5.23	561,982	7.85	8,149,626

OATS.—Continued.

County	1901				1902 Acres sown
	Acres sown	Acres har- vested	Bushels har- vested	Average yield Acres har- vested—Bushels	
Barnes.. . . .	50,335	48,290	1 078,647	22.33	45,406
Benson.. . . .	22,553	22,485	761,170	33.86	26,363
Billings.. . . .	.. . . .	.. . . .	.. . . .	.. . . .	.. . . .
Bottineau.. . . .	22,738	19,037	811,129	42.60	27,098
Burleigh.. . . .	3,951	3,955	104,433	26.40	4,319
Cass.. . . .	64,309	61,309	1,932,996	30.52	78,516
Cavaller.. . . .	38,677	38,326	1,425,275	37.18	43,363
Dickey.. . . .	4,254	3,778	64,446	17.05	7,799
Eddy.. . . .	10,738	10,655	305,006	28.62	15,072
Emmons.. . . .	1,626	1,530	17,027	11.13	1,364
Foster.. . . .	13,992	13,817	419,901	30.39	19,091
Grand Forks.. . . .	57,572	44,796	1,628,903	36.36	51,336
Griggs.. . . .	18,519	18,522	609,435	34.90	22,962
Kidder.. . . .	1,433	702	7,068	10.06	1,263
LaMoure.. . . .	10,930	10,375	225,619	21.74	12,667
Logan.. . . .	484	365	7,505	20.56	537
McHenry.. . . .	7,366	7,366	201,668	27.37	10,601
McIntosh.. . . .	3,368	2,826	20,052	7.09	1,911
McLean.. . . .	5,940	5,050	172,284	34.11	9,930
Mercer.. . . .	2,620	2,582	60,957	23.60	5,124
Morton.. . . .	8,831	8,481	163,408	19.26	10,403
Nelson.. . . .	23,962	23,941	759,760	31.73	28,075
Oliver.. . . .	2,424	2,173	64,161	29.52	2,635
Pembina.. . . .	38,455	38,166	1,271,901	33.32	39,518
Pierce.. . . .	15,233	15,223	105,244	6.91	20,887
Ramsey.. . . .	22,574	22,097	766,885	34.70	28,385
Ransom.. . . .	14,974	14,720	409,964	27.85	19,230
Richland.. . . .	48,028	47,441	1,374,037	28.96	53,593
Rolette.. . . .	10,525	10,428	311,107	21.20	13,182
Sargent.. . . .	10,009	9,869	263,293	26.67	12,897
Stark.. . . .	5,371	5,370	76,501	14.24	6,983
Steele.. . . .	23,558	24,890	664,223	26.68	25,920
Stutsman.. . . .	18,358	17,866	410,945	23.00	22,160
Towner.. . . .	24,277	24,277	919,849	37.88	23,815
Traill.. . . .	34,440	31,557	1,100,826	34.91	36,230
Walsh.. . . .	43,112	41,700	1,442,894	34.60	45,758
Ward.. . . .	4,486	4,486	151,176	33.69	8,745
Wells.. . . .	29,002	25,512	617,929	24.22	35,787
Williams.. . . .	535	458	17,854	38.98	471
Unorganized.. . . .	1,431	1,414	13,284	9.39	1,937
Total.. . . .	720,990	685,835	20,758,762	25.21	821,333

BARLEY.

County	1900				
	Acres Sown	Average Yield Acres Sown Bushels	Acres Har- vested	Average yield acres harvest- ed—Bushels	Total Product Bushels
Barnes.. . . .	14,173	2.08	5,916	4.98	29,463
Benson.. . . .	6,154	12.39	5,206	14.65	76,252
Billings.. . . .	.....	.....	.....	.....	.....
Bottineau.. . . .	2,870	9.9	2,717	10.46	28,413
Burleigh.. . . .	104	3.3	69	4.97	343
Cass.. . . .	18,803	8.49	15,017	10.57	158,740
Cavalier.. . . .	21,584	17.83	20,807	18.5	348,862
Dickey.. . . .	7,867	4.3	5,523	6.13	33,841
Eddy.. . . .	2,914	6.34	2,032	9.09	18,476
Emmons.. . . .	3,004	3.71	2,264	4.92	11,133
Foster.. . . .	3,190	4.47	1,880	7.59	14,266
Grand Forks.. . . .	17,819	5.11	11,534	8.84	90,970
Griggs.. . . .	5,011	1.68	2,040	4.12	8,405
Kidder.. . . .	759	.63	69	6.97	481
LaMoure.. . . .	9,130	2.2	3,866	5.2	20,084
Logan.. . . .	1,995	1.26	610	4.12	2,514
McHenry.. . . .	927	11.72	855	12.71	10,869
McIntosh.. . . .	9,096	3.81	6,553	5.29	34,667
McLean.. . . .	227	4.86	136	8.11	1,103
Mercer.. . . .	108	2.91	102	3.08	314
Morton.. . . .	513	2.07	187	5.61	1,061
Nelson.. . . .	8,101	2.65	4,324	4.97	21,476
Oliver.. . . .	61	6.49	59	6.71	396
Pembina.. . . .	27,703	16.00	25,509	17.38	443,370
Pierce.. . . .	2,626	12.68	2,386	13.96	33,305
Ramsey.. . . .	10,476	13.54	8,737	17.38	141,874
Ransom.. . . .	4,463	3.18	2,304	6.13	14,213
Richland.. . . .	6,643	15.47	6,394	16.08	102,790
Rolette.. . . .	3,095	9.48	2,488	11.73	29,175
Sargent.. . . .	6,915	2.21	4,290	3.57	15,300
Stark.. . . .	341	.23	47	1.7	80
Steele.. . . .	7,622	3.08	3,791	6.18	23,416
Stutsman.. . . .	5,866	1.15	1,674	4.02	6,733
Towner.. . . .	11,447	12.39	10,898	13.01	141,825
Trall.. . . .	13,474	5.79	7,924	9.85	78,045
Walsh.. . . .	16,658	11.97	13,101	15.22	199,382
Ward.. . . .	418	9.14	300	12.73	3,820
Wells.. . . .	3,951	4.89	2,382	8.11	19,312
Williams.. . . .	15	11.00	14	11.71	165
Total.. . . .	256,123	4.00	184,007	6.56	2,200,940

BARLEY.—Continued.

County	1901				1902 Acres sown
	Acres sown	Acres har- vested	Bushels har- vested	Average yield Acres harvest- ed—Bushels	
Barnes.. . . .	12,243	10,728	260,673	24.29	25,842
Benson.. . . .	6,201	6,192	197,200	31.84	13,900
Billings.. . . .	.....	.....	.....	.....	.....
Bottineau.. . . .	3,512	2,689	106,446	39.58	7,353
Burleigh.. . . .	468	180	3,966	22.03	865
Cass.. . . .	18,827	15,612	412,315	26.43	41,899
Cavaller.. . . .	22,567	22,567	830,696	36.81	37,497
Dickey.. . . .	4,679	4,221	57,456	13.61	6,656
Eddy.. . . .	2,487	2,315	57,198	24.70	4,182
Emmons.. . . .	3,423	2,686	33,913	12.70	4,019
Foster.. . . .	2,919	2,919	77,770	26.64	5,938
Grand Forks.. . . .	15,766	14,963	402,046	26.86	33,056
Griggs.. . . .	4,927	4,921	175,378	35.63	8,957
Kidder.. . . .	358	221	3,070	13.80	465
LaMoure.. . . .	6,056	5,601	105,022	18.74	10,816
Logan.. . . .	1,376	1,345	23,627	17.56	2,148
McHenry.. . . .	1,256	1,079	31,575	29.26	3,829
McIntosh.. . . .	8,255	7,046	58,112	8.24	9,410
McLean.. . . .	498	416	8,685	20.87	1,841
Mercer.. . . .	30	30	809	26.96	350
Morton.. . . .	336	336	6,185	18.40	793
Nelson.. . . .	6,526	6,526	197,267	30.22	15,097
Oliver.. . . .	121	120	2,173	18.10	227
Pembina.. . . .	28,909	28,651	838,858	29.17	43,242
Pierce.. . . .	3,066	3,066	70,301	22.92	7,211
Ramsey.. . . .	10,850	10,839	337,890	31.17	23,432
Ransom.. . . .	2,885	2,865	71,332	24.89	8,289
Richland.. . . .	6,784	6,481	168,679	26.02	13,345
Rolette.. . . .	3,353	3,349	101,282	30.24	9,803
Sargent.. . . .	3,541	3,511	77,952	22.20	6,186
Stark.. . . .	114	113	1,761	15.58	394
Steele.. . . .	6,485	6,216	174,314	28.04	15,712
Stutsman.. . . .	3,262	3,148	73,593	23.37	8,388
Towner.. . . .	13,215	13,215	413,965	31.32	24,200
Traill.. . . .	12,860	11,956	263,008	21.99	26,643
Walsh.. . . .	15,232	14,448	414,193	28.66	28,735
Ward.. . . .	297	260	9,164	35.24	833
Wells.. . . .	4,152	3,309	96,638	29.20	10,627
Williams.. . . .	6	6	80	13.00	321
Unorganized.. . . .	55½	48½	240	5.00	155
Total.. . . .	237,897	224,195	6,161,832	23.53	462,656

RYE.

County	1900				
	Acres Sown	Average yield Acres Sown. Bushels.	Acres harvested	Average yield Acres har- vested. Bushels.	Total Products Bushels.
Barnes..	494	.81	141	2.84	400
Benson..	120	6.07	92	7.79	728
Billings.. . . . .	.....	.....	.....	.....	.....
Bottineau..	503	7.00	452	7.79	3,520
Burleigh..	1,364	3.91	913	5.84	5,330
Cass..	215	5.62	133	9.08	1,208
Cavalier..	78	13.14	78	13.14	1,025
Dickey..	2,798	3.29	2,452	3.76	9,217
Eddy..	365	1.29	94	5.00	470
Emmons..	465	9.00	153	2.73	418
Foster..	522	1.85	296	3.26	965
Grand Forks..	193	.84	25	6.46	162
Griggs..	3,429	.5	624	2.78	1,735
Kidder..	2,051	.62	1,097	1.15	1,267
LaMoure..	2,079	2.30	1,572	3.04	4,982
Logan..	790	1.36	523	2.05	1,072
McHenry..	283	5.25	280	5.31	1,487
McIntosh..	1,485	2.88	1,239	3.46	4,283
McLean..	78	2.78	56	3.88	278
Mercer..	20	.7	4	3.5	14
Morton..	286	1.97	111	5.08	564
Nelson..	160	1.46	39	6.00	234
Oliver..	48	1.88	25	3.6	90
Pembina..	644	3.16	404	5.03	2,033
Pierce..	114	9.93	106	10.68	1,132
Ramsey..	39	12.82	39	12.82	500
Ransom..	2,873	2.46	2,120	3.33	7,055
Richland..	144	8.79	144	8.79	1,266
Rolette..	1,240	4.71	1,036	5.64	5,846
Sargent..	1,680	3.4	1,424	4.01	5,712
Stark..	379	.47	96	1.88	180
Steele..	186	2.42	44	10.23	450
Stutsman..	687	.37	84	2.99	251
Towner..	47	7.96	46	8.13	374
Traill.. . . . .	.....	.....	.....	.....	.....
Walsh..	343	3.58	177	6.92	1,226
Ward..	33	5.76	31	6.13	190
Wells..	717	1.71	269	4.55	1,224
Unorganized.. . . . .	.....	.....	.....	.....	.....
Total..	31,954	2.56	16,419	3.79	66,828

RYE.—Continued.

County	1901				1902
	Acres Sown.	Acres Harvested	Bushels Harvested	Average yield Acres har- vested. Bushels	Acres sown
Barnes.. . . .	241	191	3,365	17.62	568
Benson.. . . .	67	67	1,070	15.97	193
Billings.. . . .	.....	.....	.....	.....	.....
Bottineau.. . . .	421	353	6,242	17.68	316
Burleigh.. . . .	1,194	1,114	14,945	13.41	1,396
Cass.. . . .	213	202	2,107	10.43	862
Cavallier.. . . .	121	121	3,010	24.05	243
Dickey.. . . .	1,487	1,407	12,853	9.13	1,391
Eddy.. . . .	376	376	8,322	22.13	1,194
Emmons.. . . .	241	241	1,445	6.00	242
Foster.. . . .	288	288	7,525	26.12	408
Grand Forks.. . . .	190	190	3,020	15.89	335
Griggs.. . . .	1,342	1,342	17,392	12.96	2,474
Kidder.. . . .	1,093	872	4,819	5.52	1,112
LaMoure.. . . .	1,327	1,323	12,612	9.51	1,168
Logan.. . . .	380	217	4,015	18.50	530
McHenry.. . . .	214	214	3,136	14.65	364
McIntosh.. . . .	1,989	1,934	9,199	4.77	2,671
McLean.. . . .	60	48	796	16.58	55
Mercer.. . . .	37	37	475	12.84	30
Morton.. . . .	100	94	753	8.01	292
Nelson.. . . .	159	154	2,860	18.57	371
Oliver.. . . .	40	40	415	10.37	28
Pembina.. . . .	411	381	6,389	16.76	453
Pierce.. . . .	144	144	2,493	17.31	10
Ramsey.. . . .	41	41	975	23.78	680
Ransom.. . . .	1,530	1,490	20,873	14.00	1,488
Richland.. . . .	168	86	1,333	15.50	779
Rolette.. . . .	711	646	12,035	18.63	952
Sargent.. . . .	1,216	1,206	20,359	16.88	1,393
Stark.. . . .	192	159	1,328	8.35	346
Steele.. . . .	87	77	1,265	16.41	70
Stutsman.. . . .	248	233	3,835	16.46	815
Towner.. . . .	586	586	21,505	36.69	1,232
Traill.. . . .	9	9	110	12.22	9
Walsh.. . . .	287	271	3,813	14.07	81
Ward.. . . .	14	7	336	48.00	36
Wells.. . . .	288	256	4,162	16.25	689
Williams.. . . .	.....	.....	.....	.....	2
Unorganized.. . . .	23	23	174	7.56	15
Total.. . . .	17,535	16,440	221,361	14.91	24,683

CORN.

County	1900		
	Acres Planted	Average Yield Bushels.	Total Products. Bushels
Barnes.. . . .	1,518	6.14	9,315
Benson.. . . .	61	6.62	404
Billings.. . . .	.....	.....	.....
Bottineau.. . . .	7	33.43	234
Burleigh.. . . .	2,409	9.16	22,066
Cass.. . . .	21,803	12.44	271,316
Cavalier.. . . .	.....	.....	.....
Dickey.. . . .	4,849	9.45	45,844
Eddy.. . . .	215	9.07	1,951
Emmons.. . . .	2,625	8.53	22,395
Foster.. . . .	747	5.66	4,230
Grand Forks.. . . .	1,197	5.17	6,185
Griggs.. . . .	233	2.71	631
Kidder.. . . .	708	1.01	727
LaMoure.. . . .	624	11.88	7,414
Logan.. . . .	481	4.49	2,158
McHenry.. . . .	43	23.4	1,006
McIntosh.. . . .	2,070	5.59	11,569
McLean.. . . .	672	6.87	4,614
Mercer.. . . .	940	2.47	2,321
Morton.. . . .	3,300	4.32	14,271
Nelson.. . . .	144	3.65	525
Oliver.. . . .	469	8.5	3,985
Pembina.. . . .	880	.28	250
Piercé.. . . .	8	10.63	85
Ramsey.. . . .	216	7.67	1,650
Ransom.. . . .	1,901	6.94	13,196
Richland.. . . .	9,378	17.24	161,665
Rolette.. . . .	35	10.63	372
Sargent.. . . .	5,683	6.89	39,155
Stark.. . . .	1,338	1.33	1,773
Steele.. . . .	575	10.3	5,930
Stutsman.. . . .	938	10.8	10,135
Towner.. . . .	14	9.29	130
Traill.. . . .	6,047	6.5	39,298
Walsh.. . . .	557	2.47	1,375
Ward.. . . .	100	16.00	1,600
Wells.. . . .	438	10.74	4,703
Williams.. . . .	108	5.93	640
Unorganized.. . . .	.....	.....	.....
Total.. . . .	73,330	6.55	715,018

Note: A large part of the corn acreage was in fodder corn, which accounts for the low yield of the grain.

CORN.—Continued.

County	1901			1902 Acres sown
	Acres Planted	Bushels Harvested	Average yield Acres harvest- ed—Bushels	
Barnes.. . . .	3,488	22,399	6.42	3,048
Benson.. . . .	125	782	6.25	333
Billings.. . . .	25	510	20.40	100
Bottineau.. . . .	116	475	4.09	152
Burleigh.. . . .	3,956	62,015	15.67	4,403
Cass.. . . .	31,179	404,035	12.95	40,770
Cavalier.. . . .				49
Dickey.. . . .	6,256	72,769	11.63	9,592
Eddy.. . . .	815	3,148	3.86	1,017
Emmons.. . . .	3,633	51,546	13.99	5,263
Foster.. . . .	1,009	2,190	2.17	2,119
Grand Forks.. . . .	2,883	12,355	4.28	3,981
Griggs.. . . .	809	6,473	8.	882
Kidder.. . . .	689	5,170	7.50	1,219
LaMoure.. . . .	3,063	23,359	7.62	3,079
Logan.. . . .	385	1,913	5.	588
McHenry.. . . .	183	3,412	18.64	416
McIntosh.. . . .	3,143	12,335	3.92	3,638
McLean.. . . .	883	10,067	11.40	1,834
Mercer.. . . .	685	8,928	13.03	860
Morton.. . . .	2,578	32,346	12.54	3,079
Nelson.. . . .	434	2,750	6.33	641
Oliver.. . . .	702	11,575	16.34	886
Pembina.. . . .	1,108	520	.46	1,249
Pierce.. . . .	12	10	.83	69
Ramsey.. . . .	175	1,450	8.28	267
Ransom.. . . .	2,877	56,236	19.54	4,462
Richland.. . . .	18,086	232,663	12.86	20,256
Rolette.. . . .	13	282	21.69	15
Sargent.. . . .	6,398	121,622	19.00	8,651
Stark.. . . .	1,491	15,767	10.57	1,817
Steele.. . . .	1,695	19,715	11.63	2,174
Stutsman.. . . .	2,311	13,894	6.01	2,628
Towner.. . . .	32	300	9.37	23
Traill.. . . .	9,258	54,745	5.91	11,207
Walsh.. . . .	813	4,988	6.13	806
Ward.. . . .	183	4,321	24.70	253
Wells.. . . .	1,019	4,268	4.18	1,409
Williams.. . . .	214	3,105	14.50	381
Unorganized.. . . .	199	2,120	11.65	358
Total.. . . .	112,973	1,286,560	9.99	143,775

MILLET AND HUNGARIAN.

County	1900	
	Acres Sown	Tons Cut
Barnes..	6,432	6,254
Benson	1,294	2,064
Billings..	75	150
Bottineau..	38	65
Burleigh..	368	436
Cass..	11,669	12,876
Cavaller..	99	88
Dickey..	8,488	14,371
Eddy	1,569	1,980
Emmons	335	417
Foster..	1,280	1,400
Grand Forks	9,067	10,826
Griggs	3,582	4,322
Kidder..	447	450
LaMoure	2,632	3,735
Logan	3	6
McHenry..	72	142
McIntosh..	232	295
McLean	196	314
Mercer..	216	178
Morton..	1,773	1,264
Nelson	687	1,130
Oliver	258	293
Pembina	1,920	3,328
Pierce	359	597
Ramsey	1,058	1,961
Ransom	3,963	4,765
Richland	5,967	8,569
Rolette..	20	28
Sargent..	6,490	9,184
Stark	183	166
Steele	6,490	8,455
Stutsman	2,850	5,006
Towner..	405	854
Traill..	11,354	12,008
Walsh..	12,616	16,000
Ward..	342	854
Wells..	6,018	8,307
Williams..	54	18
Unorganized.. . . . .	.....	.....
Total..	111,314	143,156

MILLET AND HUNGARIAN.—Continued.

County	1901		1902 Acres sown
	Acres sown	Tons out	
Barnes..	11,281	1,965	12,491
Benson..	4,384	9,677	5,329
Billings..	100	200	150
Bottineau..	560	1,146	729
Burleigh..	805	1,606	1,052
Cass..	11,877	17,064	12,914
Cavaller..	317	425	213
Dickey..	12,635	26,395	18,853
Eddy..	3,393	5,834	4,190
Emmons..	274	217	916
Foster..	3,243	6,901	3,896
Grand Forks..	12,083	20,135	10,865
Griggs..	5,396	10,286	7,538
Kidder..	859	1,364	1,172
LaMoure..	8,430	14,483	12,590
Logan..	266	543	752
McHenry..	260	2,959	921
McIntosh..	1,924	2,184	4,463
McLean..	688	1,617	2,552
Mercer..	655	812	516
Morton..	4,845	8,144	4,132
Nelson..	1,238	2,008	1,416
Oliver..	352	600	426
Pembina..	3,169	5,792	3,567
Pierce..	1,203	3,034	1,081
Ramsey..	1,898	3,855	1,545
Ransom..	8,254	14,758	7,943
Richland..	11,066	17,734	11,907
Rolette..	102	241	221
Sargent..	11,451	24,641	13,096
Stark..	677	821	11,441
Steele..	8,216	12,433	8,009
Stutsman..	4,471	8,113	6,942
Towner..	936	1,697	1,043
Traill..	11,772	15,865	12,292
Walsh..	11,395	18,770	11,771
Ward..	602	2,315	915
Wells..	12,435	21,998	32,570
Williams..	41	62	147
Unorganized..	107	148	231
Total..	173,660	258,842	222,500

BROME GRASS.

County	1900		1901		1902 Acres sown
	Acres sown	Tons cut	Acres sown	Tons cut	
Barnes..	34	42	53	54	3,061
Benson.. . . . .	.....	.....	151	260	107
Billings.. . . . .	.....	.....	.....	.....	.....
Bottineau..	30	55	63	64	80
Burleigh.. . . . .	.....	.....	.....	.....	20
Cass..	177	55	191	220	896
Cavalier..	45	47	76	145	289
Dickey..	211	5	47	88	88
Eddy.. . . . .	.....	.....	53	62	41
Emmons.. . . . .	.....	.....	.....	.....	10
Foster..	182	75	131	156	93
Grand Forks..	12	8	1,174	2,287	443
Griggs..	67	.....	107	124	275
Kidder.. . . . .	.....	.....	7	7	16
LaMoure..	87	63	371	589	735
Logan.. . . . .	.....	.....	.....	.....	.....
McHenry..	17	1	2	10	36
McIntosh.. . . . .	.....	.....	.....	.....	30
McLean..	28	3	15	20	205
Mercer.. . . . .	.....	.....	1	1	1
Morton..	13	4	58	46	60
Nelson..	15	6	24	18	105
Oliver.. . . . .	.....	.....	3	6	6
Pembina..	50	21	180	170	134
Pierce.. . . . .	.....	8,261	5	7	10
Ramsey..	18	15	63	52	252
Ransom..	26	9	83	47	293
Richland..	41	22	70	140	96
Rolette..	8	.....	18	21	89
Sargent..	7	7	10	7	155
Stark..	3	1	24	50	47
Steele..	16	6	121	30	151
Stutsman..	20	11	11	16	135
Towner..	22	.....	.....	.....	126
Trall..	340	318	103	101	685
Walsh..	265	92	185	210	741
Ward.. . . . .	.....	.....	1	1	15
Wells..	23	.....	153	106	152
Williams..	1	.....	140	167	.....
Unorganized.. . . . .	.....	.....	.....	.....	7
Total..	1,755	9,115	3,694	5,282	6,931

OTHER TAME GRASSES.

County	1900		1901		1902 Acres sown
	Acres sown	Tons cut	Acres sown	Tons cut	
Barnes..	87	932	1,821	3,281	272
Benson..	6	.....	1,821	3,281	272
Billings.. . . . .	.....	.....	.....	.....	.....
Bottineau..	14	825	74	250	78
Burleigh..	10	10	.....	.....	8
Cass..	5,676	3,089	3,982	3,417	3,120
Cavalier..	181	356	743	1,432	326
Dickey..	20	175	93	380	144
Eddy.. . . . .	.....	495	.....	19	.....
Emmons..	450	.....	125	240	30
Foster..	18	681	.....	.....	20
Grand Forks..	2,657	3,222	3,757	4,136	2,878
Griggs..	170	221	86	379	233
Kidder.. . . . .	.....	.....	8	12	.....
LaMoure.. . . . .	.....	.....	.....	.....	41
Logan.. . . . .	.....	.....	.....	.....	.....
McHenry..	1	673	20	169	8
McIntosh..	15	30	.....	.....	.....
McLean.. . . . .	.....	.....	.....	.....	.....
McLean..	55	53	.....	.....	44
Morton..	271	100	818	1,359	10
Nelson..	472	308	53	294	1
Oliver..	12	60	.....	.....	.....
Pembina..	1,324	1,162	1,381	2,365	659
Pierce.. . . . .	.....	.....	5	22	2
Ramsey..	95	83	41	2,087	170
Ransom..	156	135	23	30	153
Richland..	1,989	1,290	1,434	6,206	1,489
Rolette.. . . . .	.....	.....	40	105	5
Sargent..	25	60	135	125	287
Stark..	208	329	45	1,077	60
Steele..	628	605	578	476	158
Stutsman.. . . . .	.....	.....	.....	.....	16
Towner..	25	28	3	5	13
Traill..	6,590	2,722	5,696	6,799	3,108
Walsh..	961	682	1,067	1,124	580
Ward..	8	57	3,715	10	8
Wells..	50	4,721	1,260	1,843	18
Williams.. . . . .	.....	.....	.....	.....	.....
Unorganized.. . . . .	.....	.....	.....	59	.....
Total..	22,173	23,131	27,113	37,975	14,016

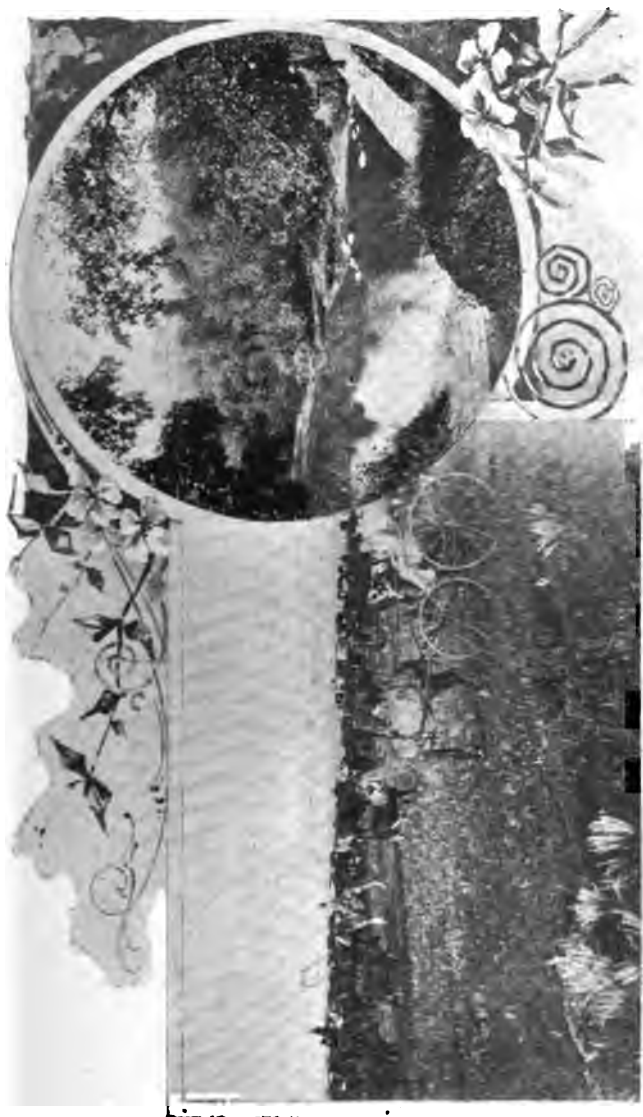
Note:—Owing to the fact that most of the acreage under this head is in very small tracts it is difficult to secure accurate reports thereon.

POTATOES.

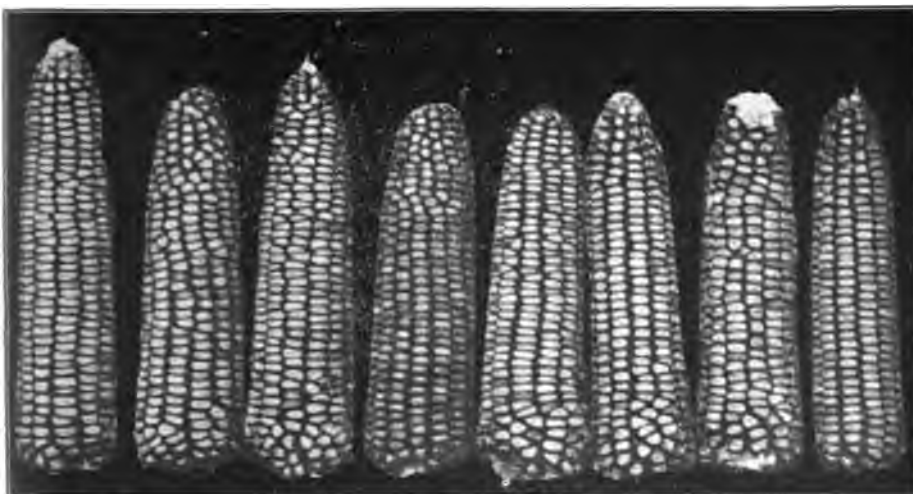
County	1900		
	Acres Planted	Average Yield in Bushels	Total Product in Bushels
Barnes.. . . .	958	42.44	41,662
Benson.. . . .	292	80.08	23,384
Billings.. . . .	25	100.00	2,500
Bottineau.. . . .	449	109.29	49,073
Burleigh.. . . .	266	46.08	12,258
Cass.. . . .	2,155	125.90	271,306
Cavalier.. . . .	556	102.17	56,805
Dickey.. . . .	782	41.15	32,180
Eddy.. . . .	241	48.52	11,693
Emmons.. . . .	237	49.62	11,760
Foster.. . . .	346	29.80	10,311
Grand Forks.. . . .	1,083	46.46	50,317
Griggs.. . . .	277	50.27	13,925
Kidder.. . . .	117	25.50	2,983
LaMoure.. . . .	508	58.20	29,567
Logan.. . . .	73	93.33	6,813
McHenry.. . . .	434	40.24	17,466
McIntosh.. . . .	336	62.93	21,145
McLean.. . . .	211	53.33	11,252
Mercer.. . . .	141	48.71	8,868
Morton.. . . .	1,024	28.85	29,544
Nelson.. . . .	1,644	17.09	28,413
Oliver.. . . .	122	48.13	5,873
Pembina.. . . .	680	81.26	55,256
Pierce.. . . .	236	93.25	22,007
Ramsey.. . . .	523	80.25	41,972
Ransom.. . . .	456	41.15	18,762
Richland.. . . .	1,182	52.77	62,370
Rolette.. . . .	298	89.59	26,697
Sargent.. . . .	519	45.40	23,564
Stark.. . . .	317	38.89	12,327
Steele.. . . .	398	43.65	17,474
Stutsman.. . . .	691	52.04	35,960
Towner.. . . .	437	69.63	30,429
Trall.. . . .	901	68.43	61,651
Walsh.. . . .	1,110	50.47	56,021
Ward.. . . .	371	83.94	31,141
Wells.. . . .	1,379	24.30	33,509
Williams.. . . .	159	84.95	13,507
Total.. . . .	21,934	82.84	1,290,755

POTATOES.—Continued.

County	1901			1902 Acres Sown
	Acres Planted	Bushels Harvested	Average yield Acres harvest- ed—Bushels	
Barnes.. . . .	15,266	93,707	6.13	894
Benson.. . . .	399	54,086	135.55	479
Billings.. . . .	20	600	30.00	50
Bottineau.. . . .	334	63,966	191.51	573
Burleigh.. . . .	382	38,452	100.65	473
Cass.. . . .	1,757	159,490	80.77	2,422
Cavalier.. . . .	582	107,224	184.24	686
Dickey.. . . .	489	33,984	69.49	728
Eddy.. . . .	208	26,436	127.09	296
Emmons.. . . .	209	18,992	90.87	253
Foster.. . . .	301	33,023	309.04	376
Grand Forks.. . . .	901	143,254	158.99	1,062
Griggs.. . . .	303	40,757	134.51	355
Kidder.. . . .	117	8,237	70.37	134
LaMoure.. . . .	485	41,718	356.56	578
Logan.. . . .	58	8,976	154.75	90
McHenry.. . . .	215	27,146	126.26	305
McIntosh.. . . .	363	14,221	39.17	394
McLean.. . . .	190	28,446	149.71	240
Mercer.. . . .	127	6,926	54.53	145
Morton.. . . .	752	49,448	65.75	782
Nelson.. . . .	447	64,966	145.11	565
Oliver.. . . .	107	10,308	96.33	127
Pembina.. . . .	701	105,232	150.11	749
Pierce.. . . .	350	29,002	82.86	403
Ramsey.. . . .	529	78,936	149.21	654
Ransom.. . . .	361	37,254	103.19	560
Richland.. . . .	1,114	117,143	105.15	1,487
Rolette.. . . .	270	40,005	148.16	350
Sargent.. . . .	522	56,876	108.00	740
Stark.. . . .	276	23,343	84.57	350
Steele.. . . .	364	50,663	139.18	469
Stutsman.. . . .	588	68,127	115.86	811
Towner.. . . .	409	50,077	122.43	394
Traill.. . . .	681	77,186	113.34	728
Walsh.. . . .	776	125,838	163.16	1,073
Ward.. . . .	172	8,962	52.10	430
Wells.. . . .	509	57,990	115.87	504
Williams.. . . .	121	10,666	88.14	234
Unorganized.. . . .	71	5,267	74.12	92
Total.. . . .	31,826	2,025,930	119.79	22,036



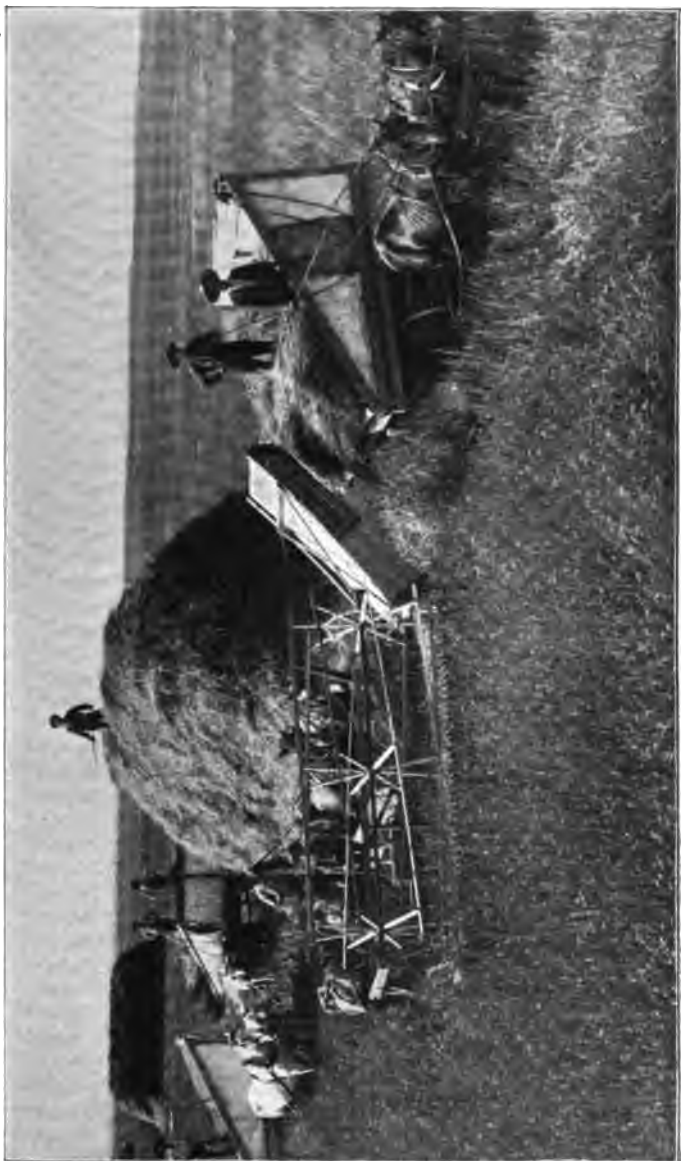
Cattle on Range—Heart River Scenery.



Northwestern Dent Corn—Grown in Burleigh County



North Dakota Fruit.

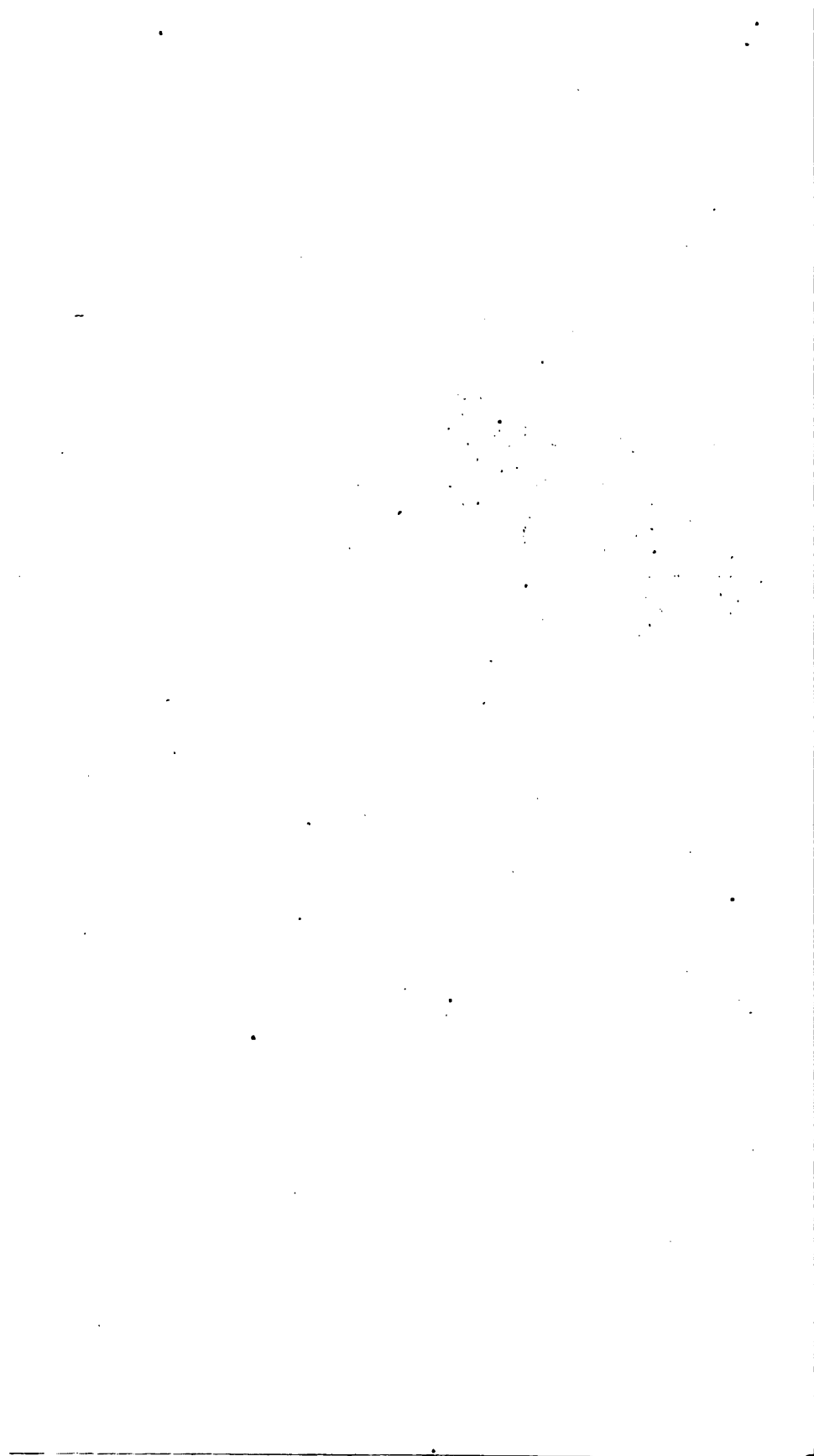


Stacking Grain From Headers,





White Flint Corn—Grown in Burleigh County.



PRAIRIE HAY.

County	1900 Tons Cut	1901 Tons Cut
Barnes	21,079	22,916
Benson	11,639	44,666
Billings	4,000	8,000
Bottineau .....	.....	33,420
Burleigh	17,096	28,425
Cass	11,462	36,749
Cavalier	30,516	48,837
Dickey	40,368	41,866
Eddy	10,531	19,540
Emmons	36,581	43,129
Foster	7,966	18,387
Grand Forks	9,966	45,619
Griggs	7,831	22,290
Kidder	21,290	23,537
LaMoure	33,681	35,163
Logan	23,642	24,450
McHenry	31,914	41,698
McIntosh	32,572	26,059
McLean	29,913	37,145
Mercer	11,105	24,863
Morton	34,319	30,950
Nelson	21,126	58,068
Oliver	10,584	14,607
Pembina	9,205	26,595
Pierce	13,994	25,193
Ramsey	33,000	56,624
Ransom	26,738	33,919
Richland	33,146	44,293
Rolette	16,178	23,897
Sargent	35,220	54,350
Stark	21,642	14,835
Steele	9,326	24,411
Stutsman	29,459	50,603
Towner	13,773	23,076
Trall	3,209	14,402
Walsh	13,085	34,153
Ward	33,527	24,006
Wells	15,172	19,450
Williams	8,546	8,357
Unorganized .....	.....	14,636
Total	774,401	1,223,184

ROOTS OF ALL KINDS.

County	1900	
	Acres Planted	Total Product Bushels
Barnes..	256	382
Benson..	6	315
Billings..	15	2,122
Bottineau..	1	156
Burleigh..	607	4,392
Cass..	25	8,128
Cavalier..	3	640
Dickey..	5	102
Eddy..	75	.....
Emmons..	5	201
Foster..	32	1,397
Grand Forks..	9	219
Griggs..	1	200
Kidder..	11	1,400
LaMoure..	2	.....
Logan..	7	264
McHenry..	2	.....
McIntosh..	15	70
McLean..	7	1,140
Mercer..	2	.....
Morton..	15	70
Nelson..	7	1,140
Oliver..	40	6,760
Pembina..	4	459
Pierce..	12	1,103
Ramsey..	11	513
Ransom..	19	2,282
Richland..	8	168
Rolette..	12	775
Sargent..	3	70
Stark..	2	455
Steele..	23	1,550
Stutsman..	7	2,094
Towner..	5	1,750
Traill..	16	6,949
Walsh..	81	2,709
Ward..	3	533
Wells..	7	730
Williams..	.....	.....
Unorganized..	.....	.....
Total..	1,337	56,958

Note: Vegetable raising seems too small a matter to the average North Dakota farmer and as a consequence 50 per cent of the vegetables sold in the state are imported. A gold mine awaits the "truck" gardener in North Dakota.

ROOTS OF ALL KINDS—Continued.

County	Acres Planted 1901	Bushels Harvested 1901	Acres Planted 1902
Barnes.. . . .	166	1,149	364
Benson.. . . .	13	1,209	13
Billings.. . . .	.....	.....	.....
Bottineau.. . . .	4	936	6
Burleigh.. . . .	1	151	1
Cass.. . . .	55	2,886	39
Cavalier.. . . .	37	17,760	70
Dickey.. . . .	472	16,618	117
Eddy.. . . .	4	678	1
Emmons.. . . .	18	647	9
Foster.. . . .	.....	.....	.....
Grand Forks.. . . .	150	2,651	10
Griggs.. . . .	3	512	12
Kidder.. . . .	.....	38	2
LaMoure.. . . .	51	500	4
Logan.. . . .	.....	.....	.....
McHenry.. . . .	23	1,472	39
McIntosh.. . . .	2	100	26
McLean.. . . .	16	570	13
Mercer.. . . .	.....	.....	.....
Morton.. . . .	2	55	7
Nelson.. . . .	5	1,075	11
Oliver.. . . .	2	150	.....
Pembina.. . . .	57	3,404	31
Pierce.. . . .	30	4,053	.....
Ramsey.. . . .	6	1,375	5
Ransom.. . . .	5	405	13
Richland.. . . .	7	1,309	17
Rolette.. . . .	16	4,707	63
Sargent.. . . .	13	1,681	6
Stark.. . . .	21	349	143
Steele.. . . .	5	913	3
Stutsman.. . . .	6	2,920	42
Towner.. . . .	3	1,388	1
Traill.. . . .	5	2,060	17
Walsh.. . . .	84	9,201	25
Ward.. . . .	11	725	30
Wells.. . . .	20	2,820	.....
Williams.. . . .	7	1,150	34
Unorganized.. . . .	1	98	5
Total.. . . .	1,323	87,724	1,191

ACREAGE LOST BY HAIL

County	1900			
	Total Loss Acres	Three- fourths Loss —Acres	Half Loss Acres	One-fourth Loss—Acres
Barnes.. . . .		12,607	2,035	1,310
Benson.. . . .	15,258	5,019	3,770	440
Billings.. . . .				
Bottineau.. . . .	3,082	1,183	2,905	1,862
Burleigh.. . . .	732	65		150
Cass.. . . .	13,355	14,288	3,940	5,025
Cavalier.. . . .	3,929	5,505	5,621	1,933
Dickey.. . . .	7,385	4,827	2,530	3,910
Eddy.. . . .	34,927	13,950	6,405	440
Emmons.. . . .	2,321	1,470		
Foster.. . . .	27,694	10,614	3,229	1,065
Grand Forks.. . . .	46,012	11,196	3,497	950
Griggs.. . . .	20,235	4,053	2,409	3,170
Kidder.. . . .	3,467	445		
LaMoure.. . . .	1,881	3,306	305	
Logan.. . . .				
McHenry.. . . .	1,723	69	89	115
McIntosh.. . . .				
McLean.. . . .	2,910	1,111	705	152
Mercer.. . . .	235			
Morton.. . . .	2,591			
Nelson.. . . .	18,245	1,270	2,055	590
Oliver.. . . .		365	395	
Pembina.. . . .	3,232	684	737	1,770
Pierce.. . . .	1,233	9,545	5,830	2,086
Ramsey.. . . .	16,123	16,011	11,833	2,265
Ransom.. . . .	3,977	3,956	610	745
Richland.. . . .	5,679	3,792	2,436	276
Rolette.. . . .	3,305	1,028	2,648	845
Sargent.. . . .	9,807	10,585	3,906	130
Stark.. . . .	90			49
Steele.. . . .	35,425	11,941	5,446	3,285
Stutsman.. . . .	7,119	6,156	2,300	549
Towner.. . . .	9,759	4,965	6,965	1,435
Traill.. . . .	84,912	5,355	21,311	1,218
Walsh.. . . .	29,806	16,298	25,542	7,510
Ward.. . . .	77	106	10	
Wells.. . . .	23,079	9,798	710	945
Williams.. . . .		20		
Unorganized.. . . .				
Total.. . . .	439,605	194,183	134,474	44,220

LOSS BY HAIL—Continued.

County	1901			
	Total Loss Acres	Three-fourths Loss Acres	Half Loss Acres	One-fourth Loss—Acres
Barnes.. . . .	2,180	5,132	21,145	16,194
Benson.. . . .	40		28	30
Billings.. . . .				
Bottineau.. . . .				463
Burleigh.. . . .	488	276	252	850
Cass.. . . .	22,367	9,917	7,473	3,233
Cavalier.. . . .	1,418	199	1,719	345
Dickey.. . . .	180	490	250	
Eddy.. . . .				100
Emmons.. . . .	83			
Foster.. . . .	408	1,590	1,475	737
Grand Forks.. . . .	623	140	450	195
Griggs.. . . .	5			72
Kidder.. . . .	4,296	1,788	432	101
LaMoure.. . . .	75	125	225	1,126
Logan.. . . .				
McHenry.. . . .	332	121	79	50
McIntosh.. . . .				
McLean.. . . .	50		25	
Mercer.. . . .	235			
Morton.. . . .	211	35		1,141
Nelson.. . . .	30		112	435
Oliver.. . . .				
Pembina.. . . .	675	297	460	180
Pierce.. . . .				
Ramsey.. . . .	105		100	375
Ransom.. . . .	564	240	260	285
Richland.. . . .	744	120	390	160
Rolette.. . . .	406		190	75
Sargent.. . . .	293		45	260
Stark.. . . .		360	2,260	992
Steele.. . . .	16,172	3,320	10,152	4,941
Stutsman.. . . .	7,752	2,693	3,390	2,754
Towner.. . . .				
Traill.. . . .	5,991	3,499	8,365	3,982
Walsh.. . . .	6,870	171	510	411
Ward.. . . .				25
Wells.. . . .	32,125	11,221	14,850	6,120
Williams.. . . .				
Unorganized.. . . .	20			
Total.. . . .	104,848	41,734	74,637	50,132

ORCHARD AND FRUIT.

County	1900				
	Trees in Bearing	Trees not in Bearing	No. Acres Berries	Value of Fruit Sold	Artificial Forests
Barnes..	62	12	102	\$.....	6,380
Benson..					306
Billings..					
Bottineau..			2		788
Burleigh..					
Cass..	313	451	2,539	85	9,335
Cavalier..		128	19		217
Dickey..	146	474	1		81
Eddy..	3	10			6
Emmons..					
Foster..			23		221
Grand Forks..	197	410	80	80	753
Griggs..	1,829	70			310
Kidder..		8	61		3,345
LaMoure..	11,000	504	2	25	157
Logan..					57
McHenry..					
McIntosh..					
McLean..	3		5		17
Mercer..					
Morton..	6	19	25	46	
Nelson..	36	128	2	7	478
Oliver..				16	10
Pembina..	65	505		5	688
Pierce..				43	123
Ramsey..	56	106	6	15	428
Ransom..	19	8	4	10	1,292
Richland..	384	215	73	10	1,203
Rolette..	12		45	115	151
Sargent..	30	373	4	40	328
Stark..	2	75	1		310
Steele..	91	203	40	23	1,194
Stutsman..					400
Towner..			3		103
Traill..	158	405	7	35	437
Walsh..	267	503	56	2	
Ward..	63	114	1,269	85	35,208
Wells..					162
Williams..	41	1			
Unorganized..					
Total..	14,783	4,722	4,368	\$ 642	64,488

ORCHARD AND FRUIT—Continued.

County.	1900			
	Number fruit trees bearing in county	Number fruit trees not bearing	Number acres of berries of all kinds	Total value of fruit raised and sold—Dollars
Barnes.. . . .	51	870	106	200
Benson.. . . .	249	457	3	446
Billings.. . . .				
Bottineau.. . . .	158	6	1	20
Burleigh.. . . .				
Cass.. . . .	155	269	30	40
Cavallier.. . . .		12	6	
Dickey.. . . .	61	263		
Eddy.. . . .	2		1	
Emmons.. . . .			50	
Foster.. . . .				
Grand Forks.. . . .	1,337	696	4	175
Griggs.. . . .	119	38		5
Kidder.. . . .	30	5		
LaMoure.. . . .	100	350	1	
Logan.. . . .				
McHenry.. . . .	5	20	800	10
McIntosh.. . . .	27	30	45	
McLean.. . . .		200	5	
Mercer.. . . .				
Morton.. . . .				
Nelson.. . . .	6	67	1	
Oliver.. . . .				
Pembina.. . . .	41	555	1	22
Pierce.. . . .				
Ramsey.. . . .	134	127	1	
Ransom.. . . .	3	15	54	
Richland.. . . .	673	204	4	52
Rolette.. . . .	25	50	3	
Sargent.. . . .	565	119	230	
Stark.. . . .	12	38	1	
Steele.. . . .	84	89	2	32
Stutsman.. . . .				
Towner.. . . .				
Traill.. . . .	318	189	9	72
Walsh.. . . .	303	1,213	404	25
Ward.. . . .		7	$\frac{1}{4}$	
Wells.. . . .		35	6	
Williams.. . . .		30		
Unorganized.. . . .				
Totals.. . . .	4,458	5,954	1,768	1,099

VALUE OF GARDEN PRODUCTS SOLD

County	Garden products sold—1900	Garden products sold—1901
Barnes.. . . .	\$ 336.00	\$ 516.00
Benson.. . . .	927.00	9,155.00
Billings.. . . .	.....	.....
Botineau.. . . .	2,065.00	2,353.00
Burleigh.. . . .	33 00	.....
Cass.. . . .	1,397 00	1,101.00
Cavalier.. . . .	936 00	1,988.00
Dickey.. . . .	340 00	2,703.00
Eddy.. . . .	227.00	480.00
Emmons.. . . .	.....	60.00
Foster.. . . .	160.00	65.00
Grand Forks.. . . .	1,883.00	6,252.00
Griggs.. . . .	108.00	5.00
Kidder.. . . .	215.00	378.00
LaMoure.. . . .	168.00	6,252.00
Logan.. . . .	.....	.....
McHenry.. . . .	1,683.00	1,742.00
McIntosh.. . . .	.....	11.00
McLean.. . . .	237.00	276.00
Mercer.. . . .	261.00	568.00
Morton.. . . .	652.00	509.00
Nelson.. . . .	1,083.00	840.00
Oliver.. . . .	710.00	1,801.00
Pembina.. . . .	505.00	2,712.00
Pierce.. . . .	.....	.....
Ramsey.. . . .	2,513.00	5,318.00
Ransom.. . . .	64.00	1,806.00
Richland.. . . .	717.00	2,800.00
Rolette.. . . .	147.00	1,027.00
Sargent.. . . .	246.00	1,485.00
Stark.. . . .	1,165.00	3,405.00
Steele.. . . .	636.00	189.00
Stutsman.. . . .	899.00	799.00
Towner.. . . .	2,201.00	2,117.00
Traill.. . . .	261.00	147.00
Walsh.. . . .	1,818.00	3,614.00
Ward.. . . .	1,793.00	4.00
Wells.. . . .	384.00	2,349.00
Williams.. . . .	3,787.00	190.00
Unorganized.. . . .	.....	.....
Totals.. . . .	\$ 30,567.00	\$ 59,439.00

Note—There is a splendid field all over the state for practical market gardeners. Comparatively little garden product is raised beyond the needs of the producer. A profitable market is found in every town in the state. The best and largest vegetables in the world are produced at smallest cost in North Dakota and there is a fortune in the business for the right parties.

POULTRY AND EGGS

County	Amount Sold During the Year 1900	Amount Sold During the Year 1901
Barnes.....	\$ 6,970.00	\$ 196.00
Benson.....	2,926.00	35.52
Billings.....	.....	.....
Bottineau.....	4,842.00	44.96

ERRATA.

On page 41, the decimal point in the last column—"amount of poultry and eggs sold during the year 1901"—should be moved over two figures, thus Barnes county should read \$19,600, and so on down the column—which of course will also affect the totals. Many inconsistencies in the statistics appearing in this report are caused by the erroneous and ridiculous returns made by assessors.

Ramsey.....	6,352.00	60.00
Ransom.....	64.27	70.38
Richland.....	17,776.00	331.19
Rolette.....	2,432.00	23.54
Sargent.....	4,852.00	246.28
Stark.....	3,170.00	21.68
Steele.....	4,730.00	43.69
Stutsman.....	5,966.00	60.45
Towner.....	5,413.00	38.96
Traill.....	109.00	.69
Walsh.....	15,574.00	118.79
Ward.....	8,703.00	.89
Wells.....	1,176.00	86.73
Williams.....	1,073.00	3.85
Unorganized.....	.....	.....
Totals.....	\$ 242,366 00	\$ 242,113.00

Note—Poultry can be raised in North Dakota with the greatest ease. The dry climate and cheap feed makes it a paradise for the fancier or market raiser. Large quantities of poultry and eggs are annually imported from other states which should be produced here. The highest prices prevail in the markets. Here is a good field for those who care for this business.

County	Garden products sold—1900	Garden products sold—1901
Barnes..	\$ 336.00	\$ 516.00
Benson..	927.00	9,155.00
Billings..		
Botineau..	2,065.00	2,252.00
Burleigh..		
Cass..		

	5,318.00	
Richland.....	64.00	1,806.00
Rolette.....	717.00	2,800.00
Sargent.....	147.00	1,027.00
Stark.....	246.00	1,485.00
Steele.....	1,165.00	3,405.00
Stutsman.....	636.00	189.00
Towner.....	899.00	799.00
Traill.....	2,201.00	2,117.00
Walsh.....	261.00	147.00
Ward.....	1,818.00	3,614.00
Wells.....	1,793.00	4.00
Williams.....	384.00	2,349.00
Unorganized.....	3,787.00	190.00
Totals.....	\$ 30,567.00	\$ 59,439.00

Note—There is a splendid field all over the state for practical market gardeners. Comparatively little garden product is raised beyond the needs of the producer. A profitable market is found in every town in the state. The best and largest vegetables in the world are produced at smallest cost in North Dakota and there is a fortune in the business for the right parties.

POULTRY AND EGGS

County	Amount Sold During the Year 1900	Amount Sold During the Year 1901
Barnes.....	\$ 6,970.00	\$ 196.00
Benson.....	2,926.00	35.52
Billings.....	.....	.....
Bottineau.....	4,842.00	44.96
Burleigh.....	4,440.00	.....
Cass.....	58,927.00	249.86
Cavalier.....	5,595.00	61.19
Dickey.....	5,591.00	50.26
Eddy.....	1,886.00	18.70
Emmons.....	1,740.00	10.51
Foster.....	982.00	23.41
Grand Forks.....	10,282.00	117.48
Griggs.....	2,704.00	.39
Kidder.....	1,465.00	9.48
LaMoure.....	4,129.00	121.10
Logan.....	537.00	4.49
McHenry.....	2,948.00	15.78
McIntosh.....	3,442.00	103.91
McLean.....	2,371.00	23.72
Mercer.....	1,673.00	5.10
Morton.....	5,680.00	51.60
Nelson.....	18,233.00	43.38
Oliver.....	902.00	13.80
Pembina.....	9,899.00	72.22
Pierce.....	419.00	5.85
Ramsey.....	6,382.00	95.68
Ransom.....	64.27	70.38
Richland.....	17,776.00	331.19
Rolette.....	2,432.00	23.54
Sargent.....	4,852.00	246.28
Stark.....	3,170.00	21.68
Steele.....	4,730.00	43.69
Stutsman.....	5,966.00	60.45
Towner.....	5,413.00	38.96
Traill.....	109.00	.69
Walsh.....	15,574.00	118.79
Ward.....	8,703.00	.89
Wells.....	1,176.00	86.73
Williams.....	1,073.00	3.85
Unorganized.....	.....	.....
Totals.....	\$ 242,366.00	\$ 242,113.00

Note—Poultry can be raised in North Dakota with the greatest ease. The dry climate and cheap feed makes it a paradise for the fancier or market raiser. Large quantities of poultry and eggs are annually imported from other states which should be produced here. The highest prices prevail in the markets. Here is a good field for those who care for this business.

LIVE STOCK.

County	1901				
	No. of Horses	No. of Mules	No. of Cattle	No. of Sheep	No. of Hogs
Barnes.. . . .	10,493	73	10,576	1,928	2,939
Benson.. . . .	7,401	55	7,003	373	2,542
Billings.. . . .	5,485	14	14,289	52,630	16
Bottineau.. . . .	5,940	80	7,513	504	3,109
Burleigh.. . . .	3,271	13	11,382	11,828	396
Cass.. . . .	20,334	541	14,476	3,868	9,712
Cavaller.. . . .	10,263	93	10,488	1,406	4,889
Dickey.. . . .	5,948	525	16,485	21,449	4,041
Eddy.. . . .	3,051	46	3,880	330	369
Emmons.. . . .	4,436	20	15,580	22,969	1,837
Foster.. . . .	3,097	49	2,929	1,419	825
Grand Forks.. . . .	11,905	250	11,660	1,312	3,557
Griggs.. . . .	5,934	136	5,552	1,426	1,512
Kidder.. . . .	1,636	11	6,283	8,450	440
LaMoure.. . . .	5,841	144	9,775	6,708	1,457
Logan.. . . .	1,925	9	9,134	13,171	601
McHenry.. . . .	2,637	37	8,651	3,681	719
McIntosh.. . . .	4,790	10	13,265	6,371	2,238
McLean.. . . .	5,452	32	14,632	7,095	475
Mercer.. . . .	3,158	.....	11,466	18,669	467
Morton.. . . .	6,521	3	26,026	19,877	1,813
Nelson.. . . .	7,086	71	12,491	2,779	2,056
Oliver.. . . .	1,113	5	5,325	1,094	540
Pembina.. . . .	10,191	24	10,376	3,768	4,523
Pierce.. . . .	4,910	67	6,094	162	2,082
Ramsey.. . . .	8,018	134	10,238	2,224	2,662
Ransom.. . . .	5,467	25	11,187	3,445	2,429
Richland.. . . .	11,640	288	16,535	4,381	6,758
Rolette.. . . .	4,609	52	4,755	1,133	1,695
Sargent.. . . .	5,676	31	14,937	4,303	4,158
Stark.. . . .	3,124	12	12,771	23,525	717
Steele.. . . .	6,920	407	7,129	481	1,949
Stutsman.. . . .	5,599	83	9,948	10,219	791
Towner.. . . .	5,048	189	3,994	171	2,872
Trall.. . . .	10,379	676	8,235	1,336	2,813
Walsh.. . . .	13,120	46	14,993	1,453	5,970
Ward.. . . .	6,450	103	20,213	6,035	439
Wells.. . . .	6,995	78	7,492	628	2,353
Williams.. . . .	1,531	3	4,162	4,488	67
Unorganized.. . . .	.....	.....	.....	.....	.....
Total.. . . .	247,414	4,435	411,925	277,089	91,028

LIVE STOCK—Continued.

County	1901			
	Value of all animals fat-tened and killed for home use and sold to local dealers	Value of cat-tle, hogs and sheep sold for market and shipped outside the state	Value of horses sold to markets outside the state	Value of all kinds of stock bro't into state
Barnes.. . . .	\$ 90,912	\$ 36,503	\$ 2,145	\$ 1,200
Benson.. . . .	37,068	3,229	.....	6,590
Billings.. . . .	.....	200,000	5,000	100,000
Bottineau.. . . .	28,784	10,537	.....	.....
Burleigh.. . . .	23,138	19,527	700	8,765
Cass.. . . .	179,661	17,396	1,755	6,625
Cavalier.. . . .	54,570	13,453	235	4,490
Dickey.. . . .	39,814	77,138	16,883	20,335
Eddy.. . . .	23,998	12,415	1,540	4,300
Emmons.. . . .	28,212	105,167	2,479	12,800
Foster.. . . .	21,365	80,558	10,400	1,575
Grand Forks.. . . .	100,155	43,679	630	302
Griggs.. . . .	30,596	13,295	2,030	1,961
Kidder.. . . .	6,434	47,200	130	5,010
LaMoure.. . . .	38,101	42,254	3,856	2,517
Logan.. . . .	2,657	35,213	.....	.....
McHenry.. . . .	8,061	19,458	450	2,958
McIntosh.. . . .	35,813	74,209	2,162	31,650
McLean.. . . .	99,447	34,496	585	41,994
Mercer.. . . .	9,279	76,829	70	.....
Morton.. . . .	21,512	113,919	2,983	2,150
Nelson.. . . .	36,830	51,332	.....	750
Oliver.. . . .	11,185	18,312	.....	.....
Pembina.. . . .	94,945	36,500	2,090	453
Pierce.. . . .	4,488	500	.....	36,000
Ramsey.. . . .	68,196	9,762	370	1,245
Ransom.. . . .	33,461	49,234	1,149	4,720
Richland.. . . .	67,810	22,272	2,367	21,027
Rolette.. . . .	20,943	3,772	.....	2,135
Sargent.. . . .	30,080	75,544	9,148	4,502
Stark.. . . .	9,507	133,936	12,272	90
Steele.. . . .	43,260	17,986	635	845
Stutsman.. . . .	37,305	61,829	675	2,780
Towner.. . . .	37,801	2,640	520	1,555
Traill.. . . .	77,384	14,321	370	1,820
Walsh.. . . .	87,120	23,317	534	5,502
Ward.. . . .	22,868	142,338	5,882	63,383
Wells.. . . .	22,278	19,512	.....	.....
Williams.. . . .	33,361	312,000	6,800	7,750
Unorganized.. . . .	.....	.....	.....	.....
Total.. . . .	\$ 1,618,399	\$ 2,533,570	\$ 96,845	\$ 439,677

LIVE STOCK—Continued.

County	1901			
	Value of all animals fattened and killed for home use and sold to local dealers	Value of cat- tle, hogs and sheep sold for market and shipped outside the state	Value of hor- ses sold to markets outside the state	Value of all kinds of stock brot into state
Barnes.. . . .	\$ 626,836	\$ 20,997	\$ 1,210	\$ 3,440
Benson.. . . .	45,659	4,410	1,550	4,530
Billings.. . . .	.....	250,000	50,000	150,000
Bottineau.. . . .	32,418	.....	.....	.....
Burleigh.. . . .	23,979	20,111	11,655	14,390
Cass.. . . .	174,149	50,672	49,500	27,940
Cavaller.. . . .	92,483	11,332	100	985
Dickey.. . . .	26,358	82,690	20,825	10,120
Eddy.. . . .	34,064	4,700	800	8,000
Emmons.. . . .	21,399	31,642	515	1,615
Foster.. . . .	6,656	6,259	.....	200
Grand Forks.. . . .	99,984	11,282	3,005	3,716
Griggs.. . . .	31,390	4,977	1,035	4,896
Kidder.. . . .	6,227	46,282	5,750	15,263
LaMoure.. . . .	116,309	58,203	10,907	20,740
Logan.. . . .	2,693	44,933	.....	10,592
McHenry.. . . .	17,788	31,058	1,700	7,480
McIntosh.. . . .	51,198	43,857	8,514	2,250
McLean.. . . .	22,048	20,854	2,082	31,895
Mercer.. . . .	3,560	3,250	.....	.....
Morton.. . . .	34,407	91,937	7,990	2,345
Nelson.. . . .	59,520	16,200	585	4,110
Oliver.. . . .	11,030	19,558	700	.....
Pembina.. . . .	102,855	12,692	877	1,350
Pierce.. . . .	12,614	3,279	.....	40,000
Ramsey.. . . .	73,147	4,785	.....	3,345
Ransom.. . . .	64,803	24,952	5,067	1,804
Richland.. . . .	97,241	111,134	2,942	6,656
Rolette.. . . .	25,053	7,395	400	.....
Sargent.. . . .	61,196	94,284	17,436	30,586
Stark.. . . .	12,753	20,987	840	980
Steele.. . . .	49,138	3,547	1,121	500
Stutsman.. . . .	31,191	42,705	1,750	1,150
Towner.. . . .	35,515	5,431	.....	.....
Trall.. . . .	114,259	12,350	1,885	3,847
Walsh.. . . .	98,367	7,173	945	8,929
Ward.. . . .	365	610	.....	615
Wells.. . . .	33,538	8,015	.....	.....
Williams.. . . .	560	5,445	2,800	5,530
Unorganized.. . . .	2,346	75,461	2,515	42,550
Total.. . . .	\$ 2,355,091	\$ 1,315,449	\$ 216,001	\$ 472,349

STATE OF NORTH DAKOTA.

45

LIVE STOCK OF 1902.

County	No. Horses	Horses, Value	No. Mules	Mules, Value	No. Cattle	Cattle, Value	No. Sheep	Sheep, Value	No. Hogs	Hogs, Value	No. Cows Used for Dairying
Barnes	10,291	\$ 323,030	53	\$ 1,266	12,415	\$ 130,434	1,676	\$ 5,149	4,489	\$ 5,932	2,376
Benson	6,985	278,900	106	4,240	8,515	83,663	728	2,178	3,911	23,466	1,279
Billings	5,194	70,644	8	320	16,644	499,320	70,585	141,170	2	4	1,279
Bottineau	5,782	229,280	103	4,120	16,511	103,020	132	354	42	4	1,823
Burlingame	2,081	106,198	8	396	10,733	240,457	8,080	20,724	1,631	1,760	1,823
Cass	16,258	642,000	439	16,869	15,715	204,411	5,469	14,769	17,860	3,790	3,710
Cavalier	11,751	299,894	96	3,060	13,247	120,566	1,586	1,477	6,363	3,980	3,113
Dickey	5,145	257,250	41	2,060	21,698	329,200	20,635	61,905	6,861	33,453	3,360
Eddy	3,151	120,061	80	2,643	17,051	72,853	561	1,057	1,864	3,663	1,069
Emmons	4,573	182,920	6	240	17,051	25,627	25,241	37,861	1,864	3,663	367
Grand Forks	3,440	142,410	143	5,338	6,237	77,969	1,847	2,734	1,863	2,017	362
Griggs	11,778	471,120	253	10,120	13,388	20,097	1,442	2,163	4,969	9,953	4,209
Hidre	6,341	220,357	112	3,668	6,272	84,737	4,269	7,292	1,200	3,569	1,497
Kidder	1,956	78,400	10	400	8,194	12,291	13,318	19,977	197	384	512
LaMoure	5,903	236,120	104	4,180	13,984	20,841	16,344	49,032	2,328	4,656	2,424
Logan	2,065	82,000	5	200	9,956	129,458	16,344	5,498	1,057	5,285	997
McHenry	2,835	113,400	40	160	11,148	122,628	2,749	5,498	1,057	5,285	997
McIntosh	5,103	110,206	14	230	14,366	224,780	6,602	13,204	4,320	12,960	4,220
McLean	6,963	178,196	64	1,892	16,394	237,105	5,873	10,309	1,008	3,101	1,409
Mercer	3,259	59,338	1	40	15,277	458,310	17,904	36,808	696	1,332	678
Morton	3,702	149,080	1	40	20,510	624,300	17,184	34,868	2,208	4,416	3,352
Nelson	7,360	294,760	120	4,800	1,307	38,210	1,215	2,430	2,947	5,894	2,520
Oliver	1,178	47,120	97	3,860	10,397	317,910	4,112	8,224	4,979	9,953	533
Pembina	6,904	179,520	81	2,385	6,472	91,976	176	176	1,518	4,458	460
Pierce	8,734	349,360	276	11,040	11,685	233,760	2,617	5,234	3,199	12,796	2,259
Ransom	5,372	214,880	92	3,680	12,321	18,461	2,786	4,179	3,244	6,498	2,574
Richland	11,226	449,440	205	10,200	18,062	27,123	6,666	9,969	8,960	17,960	3,021
Rolette	161,994	161,994	105	3,367	6,052	87,350	928	1,928	2,469	4,806	848
Sargent	6,723	163,152	24	1,082	20,325	20,650	6,298	8,500	8,064	5,400	5,498
Stark	2,537	101,490	2	80	11,413	236,260	8,303	16,906	1,067	4,298	451
Steele	6,904	240,149	147	4,558	8,295	86,375	1,363	1,719	2,778	4,359	1,493
Steutsman	1,984	198,160	61	2,440	11,703	351,090	21,324	42,648	1,171	2,342	2,698
Towner	7,516	500,000	354	35,000	5,398	80,000	174	500	1,601	3,400	1,105
Trall	9,653	292,051	19	18,780	9,400	22,313	1,381	2,441	5,258	3,530	2,205
Walsh	12,068	481,440	110	4,000	14,028	22,396	2,908	4,212	7,149	14,296	3,398
Ward	4,701	199,440	103	3,511	12,364	18,396	7,913	15,321	3,352	6,704	1,600
Wells	2,402	72,621	3	150	11,423	117,974	7,913	15,321	54	187	39
Williams	1,667	66,660	3	120	11,361	237,220	75,918	151,886	239	1,434	234
Unorganized											
Total	247,566	\$ 9,009,676	4,172	\$ 171,721	463,751	\$ 6,237,885	330,466	\$ 766,495	122,885	\$ 275,268	73,571

County	1900		1901	
	No. Sheep Sheared	No. Pounds Wool Clipped	No. Sheep Sheared	Total Wool Clip Pounds
Barnes.. . . .	651	4,157	1,529	9,103
Benson.. . . .	287	2,525	145	1,025
Billings.. . . .	50,000	400,000	60,000	480,000
Bottineau.. . . .	132	982	216	1,256
Burleigh.. . . .	3,786	21,894	8,421	49,823
Cass.. . . .	2,258	17,407	2,406	25,094
Cavaller.. . . .	676	3,190	580	4,724
Dickey.. . . .	9,653	65,414	17,462	107,165
Eddy.. . . .	136	1,509	184	1,891
Emmons.. . . .	14,322	77,002	10,517	53,596
Foster.. . . .	1,731	8,818	1,551	7,940
Grand Forks.. . . .	1,013	6,281	1,329	5,402
Griggs.. . . .	1,073	7,701	986	6,127
Kidder.. . . .	8,711	54,180	9,435	62,033
LaMoure.. . . .	3,564	36,187	5,969	35,145
Logan.. . . .	8,850	54,414	7,147	46,494
McHenry.. . . .	4,807	28,842	1,908	9,317
McIntosh.. . . .	3,736	34,709	5,005	37,179
McLean.. . . .	3,984	14,882	1,614	12,506
Mercer.. . . .	13,475	80,919	16,160	116,431
Morton.. . . .	7,487	118,976	10,864	77,343
Nelson.. . . .	2,294	14,480	1,494	9,706
Oliver.. . . .	29	315	27	210
Pembina.. . . .	2,700	17,812	2,661	18,610
Pierce.. . . .	45	373	176	447
Ramsey.. . . .	1,250	8,870	1,818	11,061
Ransom.. . . .	2,428	13,018	1,589	10,461
Richland.. . . .	1,774	9,939	1,925	11,669
Rolette.. . . .	469	2,486	643	4,181
Sargent.. . . .	2,622	5,831	4,578	32,677
Stark.. . . .	7,806	51,511	4,656	34,350
Steele.. . . .	812	2,071	375	2,291
Stutsman.. . . .	12,831	97,541	18,742	128,121
Towner.. . . .	60	278	38	315
Traill.. . . .	782	5,313	812	5,503
Walsh.. . . .	982	7,617	698	5,339
Ward.. . . .	3,000	11,585	2,019	144,254
Wells.. . . .	337	2,271	898	7,882
Williams.. . . .	3,355	18,307	6,572	40,432
Unorganized.. . . .	.....	.....	12,134	93,950
Totals.. . . .	183,908	1,309,607	224,997	1,711,047

WOOL MARKET.

In compliance with chapter 23 of the political code, as revised in 1899, entitled "Wool Market," an annual proclamation has been issued by this department, declaring the free storage of wool from the 15th day of June to the 31st day of August of each year. The North Dakota Wool Growers' Association established special wool market days at the following places: Sentinel Butte, Dickinson, Taylor, Richardson, Glen Ullin, Mandan, Hebron, Bismarck, Steele, Braddock, Napoleon, Medina, Dawson, Jamestown and Oakes.

The following account shows the cost of printing and advertising for the year 1901:

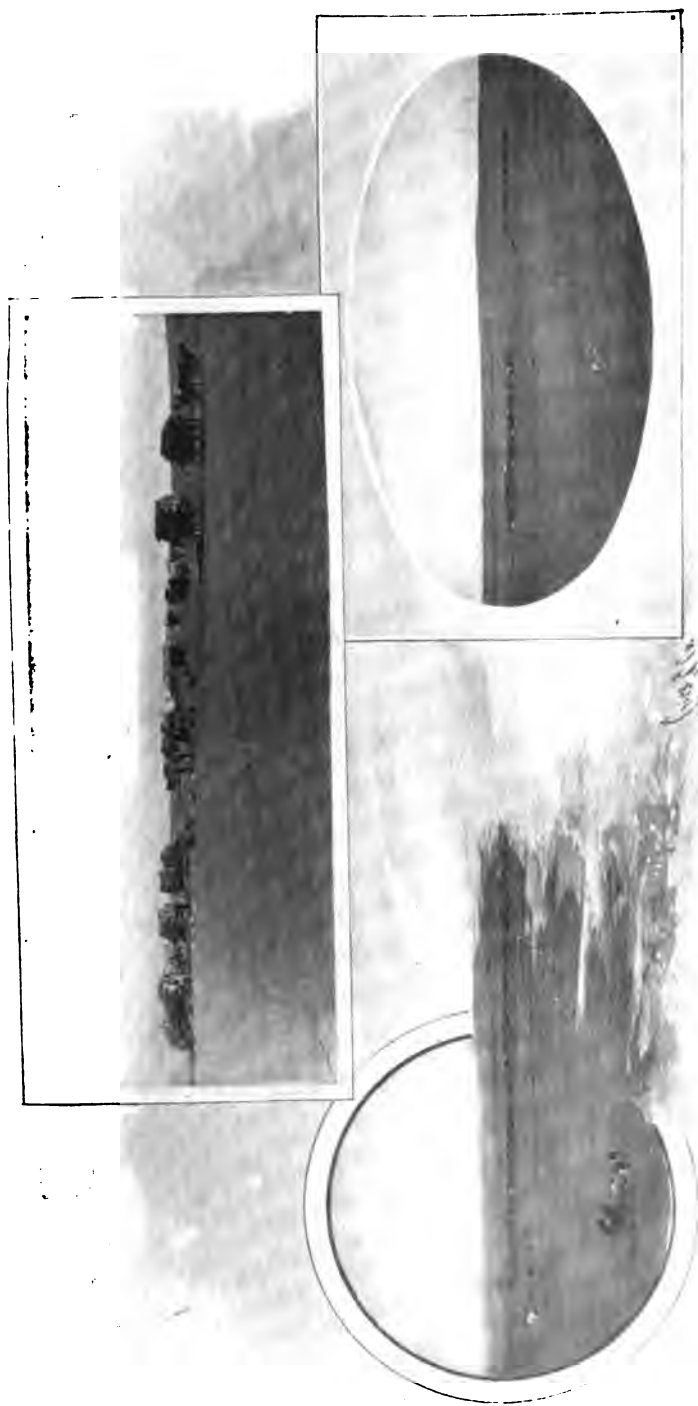
The Capital, Jamestown.....	\$ 10 00
E. A. Smith, Oakes.....	10 00
Bismarck Tribune Company.....	6 00
Forum Printing Company.....	6 00
W. A. Carter, Dickinson.....	4 50
Times Printing Company.....	4 50
M. L. Ayers, Dickinson.....	4 50
Bismarck Tribune.....	3 75
A. J. Voight, Oberon.....	10 00
J. H. Bragdon & Company.....	9 00
Frank P. Bennett.....	12 00
Fred Peterson.....	10 00
H. U. Thomas.....	28 75
Total.....	\$119 00

The following amounts were expended for the year 1902:

Dickinson Press.....	\$ 6 75
Dickinson Record.....	4 50
Bismarck Palladium.....	7 55
Kulm Messenger.....	4 55
Total.....	\$ 23 35

VITAL STATISTICS.

County	1900			
	No. Males Living on Farms	No. Females Living on Farms	No. Births	No. Deaths
Barnes.. . . .	4,311	3,356	172	46
Benson.. . . .	2,375	1,849	126	27
Billings.. . . .	500	250	7	10
Bottineau.. . . .	2,830	2,345	172	35
Burleigh.. . . .	744	651	33	6
Cass.. . . .	6,962	5,212	238	69
Cavalier.. . . .	4,751	3,779	243	47
Dickey.. . . .	2,076	1,790	101	42
Eddy.. . . .	1,367	1,087	62	11
Emmons.. . . .	1,745	1,225	111	33
Foster.. . . .	1,122	767	55	27
Grand Forks.. . . .	5,574	4,553	219	84
Griggs.. . . .	2,054	1,560	91	29
Kidder.. . . .	513	436	15	3
LaMoure.. . . .	2,289	1,927	146	31
Logan.. . . .	970	900	79	10
McHenry.. . . .	1,229	1,101	127	9
McIntosh.. . . .	2,238	2,074	240	50
McLean.. . . .	1,492	1,216	157	25
Mercer.. . . .	904	716	84	15
Morton.. . . .	2,433	2,227	97	31
Nelson.. . . .	3,246	3,037	148	40
Oliver.. . . .	449	341	29	6
Pembina.. . . .	4,779	3,916	174	72
Pierce.. . . .	2,244	1,681	159	15
Ramsey.. . . .	3,309	2,556	125	36
Ransom.. . . .	2,224	1,826	86	29
Richland.. . . .	4,197	3,594	198	53
Rolette.. . . .	2,486	2,067	138	31
Sargent.. . . .	2,176	1,760	96	28
Stark.. . . .	1,201	1,053	72	28
Steele.. . . .	2,552	2,010	105	31
Stutsman.. . . .	2,430	1,858	135	42
Towner.. . . .	1,203	722	133	25
Traill.. . . .	4,102	3,208	123	21
Welsh.. . . .	6,451	5,502	354	96
Ward.. . . .	3,280	2,599	145	36
Wells.. . . .	3,003	2,395	217	40
Williams.. . . .	296	197	9	.....
Unorganized.. . . .	.....	.....	.....	.....
Totals.. . . .	98,207	79,143	5,021	1,267



Wool Train and Stark County Cattle Ranges.





On One of the Bonanza Wheat Farms,



Ten-Year Old Tree Claim.





New Rockford Creamery



Sykeston Creamery.

VITAL STATISTICS.

County	1902			
	No. Males Living on or Employed on Farms	No. Females Living on or Employed on Farms	No. Births During Year Ending June 30, 1902	No. Deaths During Year Ending June 30, 1902
Barnes..	4,123	3,070	135	49
Benson..	2,793	2,132	114	22
Billings..	475	200	18	4
Bottineau..	1,988	1,687	229	27
Burleigh..	802	651	31	10
Cass..	6,204	4,623	199	74
Cavalier..	4,665	3,961	255	69
Dickey..	2,065	1,589	81	34
Eddy..	1,204	956	53	3
Emmons..	1,459	1,322	83	29
Foster..	1,192	816	23	8
Grand Forks..	5,734	4,492	230	61
Griggs..	2,096	1,578	80	21
Kidder..	686	576	45	7
LaMoure..	2,383	2,001	112	36
Logan..	1,051	963	105	39
McHenry..	1,848	1,538	211	22
McIntosh..	2,119	2,025	176	41
McLean..	1,966	1,667	192	29
Mercer..	909	757	61	13
Morton..	2,067	1,865	130	38
Nelson..	3,174	2,416	107	26
Oliver..	462	373	27	9
Pembina..	4,717	3,767	182	70
Pierce..	2,497	1,866	109	19
Ramsey..	3,007	2,203	132	19
Ransom..	2,056	1,687	88	29
Richland..	5,152	4,118	379	44
Rolette..	2,734	2,273	103	28
Sargent..	2,434	2,074	141	44
Stark..	1,229	1,161	117	31
Steele..	2,673	2,061	90	19
Stutsman..	2,422	1,897	114	26
Towner..	1,946	1,405	96	23
Traill..	3,765	2,899	138	23
Walsh..	5,955	5,240	257	73
Ward..	1,906	1,143	78	18
Wells..	3,106	2,410	240	59
Williams..	260	212	8	4
Unorganized..	532	476	45	9
Total..	97,857	78,151	5,014	1,209

FARM LABOR STATISTICS.

County	1900				
	Number Male Employees.	Average Wages Paid Per Month.	Number Fe- male Em- ployees.	Average Wages Paid Per Month.	Total Wages Paid.
Barnes.. . . .	859	\$25.71	201	\$12.73	\$ 165,222
Benson.. . . .	564	23.00	84	12.00	123,487
Billings.. . . .	150	30.00	15	15.00	30,000
Botineau.. . . .	376	18.11	68	8.70	42,143
Burleigh.. . . .	189	.....	.....	.....	30,935
Cass.. . . .	.....	20.00	.....	15.00	654,142
Cavalier.. . . .	626	24.35	100	12.54	90,136
Dickey.. . . .	339	26.00	31	10.00	41,643
Eddy.. . . .	202	25.00	60	12.00	38,484
Emmons.. . . .	323	15.66	41	9.87	20,477
Foster.. . . .	282	30.00	23	15.00	56,924
Grand Forks.. . . .	1,236	25.95	278	14.05	205,099
Griggs.. . . .	364	26.00	83	15.00	74,094
Kidder.. . . .	102	18.00	12	13.00	14,433
LaMoure.. . . .	271	18.00	42	10.00	40,926
Logan.. . . .	33	20.00	4	11.00	4,272
McHenry.. . . .	771	17.58	52	13.36	15,476
McIntosh.. . . .	10	20.00	2	15.00	1,443
McLean.. . . .	166	.....	16	.....	25,030
Mercer.. . . .	84	25.00	19	15.00	12,391
Morton.. . . .	115	17.24	11	9.19	22,799
Nelson.. . . .	393	.....	58	.....	69,526
Oliver.. . . .	20	20.00	4	10.00	1,625
Pembina.. . . .	1,313	.....	160	.....	228,301
Pierce.. . . .	153	24.33	9	10.99	23,567
Ramsey.. . . .	714	17.00	126	14.00	136,214
Ransom.. . . .	378	28.00	83	12.00	70,811
Richland.. . . .	781	24.60	120	11.79	155,327
Rolette.. . . .	151	20.37	11	7.65	22,111
Sargent.. . . .	318	20.00	58	10.00	53,540
Stark.. . . .	171	25.00	21	10.00	36,525
Steele.. . . .	682	21.84	132	14.55	112,532
Stutsman.. . . .	503	12.60	38	10.55	21,095
Towner.. . . .	446	25.00	61	12.00	142,253
Trall.. . . .	1,209	.....	227	.....	313,210
Walsh.. . . .	725	.....	148	.....	149,046
Ward.. . . .	89	25.00	9	6.50	8,630
Wells.. . . .	359	21.74	99	6.29	68,735
Williams.. . . .	51	16.00	6	11.00	6,784
Unorganized.. . . .	.....	.....	.....	.....	.....
Totals.. . . .	15,438	\$22.32	2,512	\$11.69	\$3,525.987

FARM LABOR STATISTICS.

County	1901				
	No. Male Employees	Average Wages Paid Per Month	No. Female Employees	Average Wages Paid Per Month	Total Wages Paid Dur- ing Year
Barnes...	1,018	\$ 17.07	188	\$ 16.38	\$ 150,092
Benson...	556	25.75	117	10.75	223,233
Billings...	417	25.92	58	10.70	50,572
Bottineau...	167	30.00	113	12.00	33,901
Burleigh...	1,874	25.00	393	15.00	736,552
Cass...	676	27.50	83	10.00	97,464
Cavalier...	346	26.00	40	15.00	42,132
Dickey...	170	15.00	92	10.90	44,597
Eddy...	98	20.00	31	15.00	14,169
Emmons...	362	26.00	35	14.00	85,915
FoFster...	1,675	24.25	347	13.00	351,033
Grand Forks...	459	27.84	87	15.48	160,169
Griggs...	121	26.00	13	14.00	20,178
Kidder...	407	25.00	48	12.00	72,367
LaMoure...	110	20.00	8	12.00	27,600
Logan...	53	20.00	25	12.00	16,720
McHenry...	156	26.00	26	12.00	27,602
McIntosh...	74	15.00	12	8.00	11,971
McLean...	75	24.00	5	10.00	1,848
Mercer...	632	16.25	104	6.00	135,233
Morton...	27	16.50	7	9.00	4,622
Nelson...	1,493	25.00	250	16.00	271,794
Oliver...	266	17.00	250	15.00	31,218
Pembina...	826	28.00	92	10.00	239,172
Pierce...	421	17.00	89	8.50	101,730
Ramsey...	852	26.00	179	10.20	191,240
Ransom...	175	19.50	118	11.60	40,949
Richland...	386	27.57	96	24.69	85,412
Rolette...	59	20.28	3	18.33	9,471
Sargent...	632	23.83	120	16.05	194,976
Stark...	284	15.50	36	12.50	63,896
Steele...	527	29.46	35	16.30	67,030
Stutsman...	819	23.03	201	11.60	385,825
Towner...	1,068	25.00	137	11.60	180,701
Trail...	77	27.30	7	15.50	24,402
Walsh...	388	23.50	66	14.44	326,236
Ward...	50	25.00	3	12.00	5,050
Wells...	50	25.00	4	22.50	19,070
Williams...					
Unorganized...					
Total..	17,819	852.05	3,468	488.82	4,546,142

COAL MINES.

County.	1900				
	Number mines operated.	Number men employed.	Number tons mined.	Average cost per ton.	Total wages paid.
Burleigh.. . . .	8	20	2,950	\$.60	\$ 2,075
Emmons.. . . .	3	8	500	1.30	680
McLean.. . . .	5	150	55,460	.75	50,000
Morton.. . . .	7	25	25,000	.60	15,400
Stark.. . . .	4	80	30,500	.75	25,560
Ward.. . . .	6	120	21,450	.90	14,640
Totals.. . . .	33	403	135,850	\$.83 2-3	\$ 108,355

COAL MINES.

County.	1900				
	Number mines operated.	Number men employed.	Number tons mined.	Average cost per ton.	Total wages paid.
Burleigh.. . . .	1	25	36,500	\$ 1.12	\$ 21,100.00
McLean.. . . .			5,000		
Morton.. . . .	4	51	11,177	.98	1,200.00
Stark.. . . .	12	31	31,900	.62	22,550.00
Ward.. . . .	4	17	4,200	.90	248.65
Williams.. . . .	1	2	200	.95	100.00

SIRE CERTIFICATES AND BRANDS

RECEIPTS.

In compliance with Chapter 146, Laws of 1899, relating to liens for services of sires, etc., this department has issued during the last biennial term 148 certificates and 553 copies to owners of sires, and 1,358 brands. The receipts and disbursements of the fees are as follows:

Total receipts for certificates.....\$ 239.70
 Total receipts for brands..... 2,716.00 \$2,955.70

DISBURSEMENTS.

Revenue, postage and exchange.....\$ 73.55
 Postage received for brands and certificates..... 257.25
 Paid into state treasury..... 2,624.90 \$2,955.70

REPORT OF THE FLOURING MILLS, 1901.

Name	Location.	Daily Capacity Bbls.
Rustad & Kresse.....	Kindred	200
W. C. Leistikow.....	Grafton	600
Diamond Milling Company.....	Grand Forks	500
Brosseth & Sargeant.....	Caledonia	100
Russell Miller Milling Company.....	Valley City	350
Russell Miller Milling Company.....	Jamestown	500
Ellendale Milling Company.....	Ellendale	100
Sheldon Roller Mill Company.....	Sheldon	100
Fargo Roller Mills.....	Fargo	200
Math. Brown & Co.....	Wahpeton	100
Cavaller Roller Mill Company.....	Cavaler	150
John F. Mager.....	Walhalla	100
Dunlap Bros.....	Michigan City.....	100
Janney Bros.....	Reynolds	100
C. S. Moores.....	Hope	150
Fred Koester.....	Cando	100
Hougen Milling Company.....	Northwood	200
Haney Bros.....	Park River	200
Harvey Milling Company.....	Harvey	100
Goose River Mill Company.....	Mandan	450
Missouri Valley Milling Company.....	Mayville	100
Ramsey Milling Company.....	Devils Lake.....	100
F. C. Zuelsdorf.....	Minto	100
Hankinson Roller Mills.....	Hankinson	100
Lidgerwood Mill Company.....	Lidgerwood	100
Oakes Milling Company.....	Oakes	100
Farmers' Milling & Grain Company.....	Minor	100
M. O. Walker.....	Dally	50
Hall & Davis.....	Leeds	100
Matthew Harrison.....	.....	100
DeLamere Mill Company.....	DeLamere	100
Elk Valley Mill Company.....	Larimore	150
Sorenson & Son.....	Tower City.....	100
Louis Gjere.....	Hatton	100
Bathgate Roller Mill.....	Bathgate	50
Iverdale Olson & Co.....	Edinburgh	50
W. R. McGlenn.....	Kenmare	100
G. J. Dobber.....	Kulm	100
Corelins Bros.....	Cooperstown	75
Milton Roller Mill.....	Milton	150
Langdon Roller Mills.....	Langdon	150
Washburn Roller Mills.....	Washburn .....	.....
Leahy & Sheriff.....	Hebron	50
New Salem Roller Mills.....	New Salem .....	.....
L. N. Tavis.....	Glen Ullin .....	.....
Dunselth Mill Co.....	Dunselth .....	.....
Kalbfleisch & Son.....	Bottineau .....	.....
Bottineau Milling Co.....	Bottineau .....	.....
Dawson Mills.....	Dawson .....	.....
Walker's Mills.....	Fort Ransom.....	.....
Abercrombie Roller Mills.....	Abercrombie .....	.....
Hillsboro Roller Mills.....	Hillsboro .....	.....
Pisek Mill Company.....	Pisek .....	.....
Inkster Roller Mills.....	Inkster .....	.....
Cathay Milling Company.....	Cathao
Lakota Milling Company.....	Lakota
George W. Lee.....	Gladstone	125

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REPORT
OF THE
ASSISTANT DAIRY COMMISSIONER
AND
DIRECTOR OF FARMERS' INSTITUTES
TO THE
COMMISSIONER OF AGRICULTURE AND LABOR

REPORT

To the Commissioner of Agriculture:

Sir: In accordance with section 2 of the act creating the office of assistant dairy commissioner, I have the honor of making the following report for the biennial period ending June 30th, 1902.

The law provides that all milk dairymen selling milk from a dairy of five or more cows in cities of one thousand inhabitants or over shall first obtain a milk license. Blank applications are sent out early in June of each year so as to make it as easy as possible for the dairymen to comply with this law. The number of licenses issued for the year ending June 30th, 1901, was forty and for the year ending June 30th, 1902, twenty-nine. Some of the dairymen are very negligent in the matter of taking out licenses and the commissioner was compelled to make a personal visit to some of the milkmen. As this was not possible the past year, not quite so many licenses were issued. No complaints of impure, dirty or adulterated milk have been registered with the commissioner. Whether the milk has been up to standard and no complaints necessary, or the people don't know there is any one whose duty it is to receive and investigate these matters, the office is unable to say.

The law calls for reports of all licensed milk dairymen for the year ending October 31st. Less than one-half of the reports have been received, so it is utterly impossible to give any reliable statistics of the production and consumption of milk as food. The parties not making these reports could be prosecuted, but inasmuch as such prosecutions would not bring out the reports in time to be of any benefit in the preparation of this report it was not deemed advisable to try to enforce the law in its entirety at this time.

There are quite a number of problems concerned in the production and sale of milk in cities and towns and under our present conditions and environments this office is inclined to believe that a state supervision of the milk supply in towns and cities is unwise. The matter could be much better regulated by ordinances authorizing the city boards of health to license, inspect and supervise the milk dairies operating in their respective towns. This supervision is always in the interest of better health and better sanitary conditions and would effectually prevent any clashing between city and state officers as has been the case in a neighboring state. Would not a more rigid inspection and sampling of milk be made possible when made by and in the hands of each city health officer than if the whole

state is covered by one man with a multitude of other duties to claim his time and attention?

The question of pure food is of great importance and must soon claim more attention from legislators and this office would recommend the repeal of the law as it now stands, and cities authorized to pass such ordinances as would give the boards of health entire supervision of the production and sale of milk in their respective cities.

CHEESE FACTORIES.

The cheese factories of the state are four in number, all of which return the blanks sent them for the annual report. The location of these factories is as follows: E. Mayhew, Oakes; Fullerton Dairy Company, Fullerton; Lisbon Cheese Factory, Lisbon; and Square Butte Cheese Factory, Harmon. A factory is reported at Monango, but the officers are all dead or sleeping, as no response was received to the numerous inquiries regarding such a plant.

The number of pounds of milk received for the year ending October 31st, 1902, amounted to 703,025, from which 73,133 pounds of cheese were made. The amount of money paid patrons for milk was \$5,325.95 or 75.7 cents per hundred pounds.

The cheese factory is not so popular with the farmers as the creamery. North Dakota farmers endeavor to combine stock raising with their dairy work. When they sell milk or cream to the creamery, they have left skim milk for the calves, which is about three times as valuable as whey for feeding purposes. The cheese factory has the advantage of being able to operate successfully with a less supply of milk than the creamery, and of being open during only the summer months, when the cows are all on pasture and milk is consequently produced very cheaply. However, on closing down for the winter, butter must be made or the cow kept at a dead loss six months of each year.

CHEESE FACTORIES, 1901.

City	County	Manager	Name
Oakes	Dickey	E. Mayhew .....	.....
Monango	Dickey	W. E. Kellogg .....	.....
Lisbon	Ransom	H. S. Grover .....	.....
Monango	Dickey .....	.....	Monango Dairy Association
Langdon	Cavalier	J. B. Boyd .....	.....
Rolla	Rolette	James Hunt .....	.....
Harmon	Morton .....	.....	Square Butte Cheese Factory

CREAMERIES.

At the time of sending out blanks for the annual reports of creameries, October 31st, 1902, there were, in the state, thirty-seven creameries and five skimming stations. Fourteen of these creameries were started in 1902 and eight in 1901. The average time which the fourteen plants started the present year were in operation was five months, so but twenty-three plants reported for the full twelve months.

These creameries are pretty well scattered over the state, thirteen being west of the Missouri river; eleven in the southeastern part of the state; two in the Red river valley and eleven from the James river valley west to the Missouri river. Morton county has 9 creameries; Sargent county, 7; Richland, 2; Stark, 2; LaMoure, 3; Burleigh, 1; Barnes, 1; Wells, 1; Eddy, 1; Benson, 1; Nelson, 1; Walsh, 2; Cass, 1; Dickey, 1; Mercer, 1; and Oliver, 1.

The following list gives the location of all the creameries in the state with such other information and data relative to their management as this office has been able to obtain.

LIST OF CREAMERIES IN NORTH DAKOTA.

Number	Located at or Near	Name of Creamery.	Individual, Co-operative or Stock Company	Name of Proprietor, Secretary or Manager.	Postoffice of Proprietor, Secretary or Manager.	County.	Name of Buttermaker.
1	New Salem.	New Salem Butter Mfg. Co.	Stock Company	P. Blank.	New Salem.	Morton.	R. F. Flint
2	New Salem.	Garfield Creamery Co.	Stock Company	William Kroeger	Youngtown.	Morton.	D. M. Young
3	New Salem.	Blue Grass Co-operative C'y A'n.	Co-operative	A. Weinreich.	New Salem.	Morton.	H. Michaels
4	Judson.	Farmers' Creamery Co.	Stock Company	John Seethoff.	Glen Ullin.	Morton.	Wm. Schuster
5	Glen Ullin.	Leipzig Creamery Co.	Stock Company	N. Laescher.	Leipzig.	Morton.	C. W. Lorenz
6	Leipzig.	Hebron Creamery Co.	Co-operative	Eugene Wieg.	Hebron.	Morton.	A. A. Sharpling
7	Hebron.	Hebron Creamery Co.	Stock Company	C. L. Timmerman	Hebron.	Morton.	C. B. Young
8	Hebron.	Mandan Butter Co.	Stock Company	Fred Koessel.	Mandan.	Morton.	Victor Glantz
9	Little Heart.	Springvale Butter Co.	Stock Company	Victor Glantz.	Richardson.	Oliver.	Charles Howard
10	Richardson.	Hanover Creamery Co.	Stock Company	John Powers.	Hanover.	Sargent.	Leon Howard
11	Hanover.	Powers Bros.	Individual.	Byron Parsons.	Havana.	Sargent.	F. G. Stiller
12	Havana.	Fairview Creamery	Individual.	Andrew Miller.	Oella.	Sargent.	E. E. Soule
13	Havana.	Rutland Creamery Co.	Co-operative.	J. H. Dyke.	Rutland.	Sargent.	Aug. Holluberg
14	Rutland.	Forman Creamery Co.	Stock Company	E. E. Soule.	Forman.	Sargent.	Geo. R. Woods
15	Forman.	Cogswell Creamery	Individual.	R. A. Philfer.	Cogswell.	Sargent.	M. W. Thompson
16	Cogswell.	Hampel Creamery Co.	Co-operative.	H. K. Pennington	Hampel.	Sargent.	A. C. Kresdin
17	Hampel.	State Lane Creamery	Individual.	J. Robbins, Mgr.	Minor.	Sargent.	W. P. Plunleigh
18	Minor.	Lidgerwood Creamery.	Stock Company	A. C. Kresdin.	Lidgerwood.	Sargent.	Wm. Haeger
19	Lidgerwood.	Barney Creamery Association.	Individual.	E. Maynew.	Barney.	Sargent.	G. G. Efforis
20	Barney.	Oakes Creamery Co.	Stock Company	B. A. Owen.	Oakes.	Sargent.	Theo. Tieman
21	Oakes.	Edgely Creamery Association.	Individual.	L. O. Berg.	Edgely.	Sargent.	H. P. Nelson
22	Edgely.	Kulm Creamery Co.	Stock Company	H. P. Nelson.	Kulm.	Sargent.	R. H. Herbson
23	Edgely.	Marion Creamery and Stock Co.	Co-operative.	H. C. Whitcomb	Marion.	Sargent.	Geo. James
24	Marion.	Wells County Creamery Association.	Co-operative.	W. J. Dwir.	Wells.	Sargent.	Medina
25	Marion.	New Rockford Creamery Co.	Stock Company	H. G. Sprague.	New Rockford.	Sargent.	Stutman
26	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	Burleigh
27	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
28	New Rockford.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
29	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
30	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
31	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
32	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
33	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
34	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
35	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
36	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
37	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
38	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
39	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy
40	Marion.	Finland Creamery Association.	Co-operative.	C. F. Lenhy.	Finland.	Sargent.	C. F. Leuthy

DAIRY PRODUCTS OF 1900.

County	No. pounds cheese made in families	No. pounds butter made in families	Total value of milk sold other than to cheese factories and creameries	Value of milk sold to cheese factories and creameries or made in to butter and cheese by such factories	No. pounds milk sold to cheese factories	No. pounds milk sold to creameries	No. cows used for dairying
Barnes	15,080	232,122	\$ 40.00	\$ 70.00	425		2,390
Benson	215	86,893	446.00				598
Billings		500					
Bottineau	600	150,499	575.00		6,850	1,000	1,921
Burleigh	382	27,235	1,039.00	590.00			417
Cass		465,455	14,305.00	150.00			4,544
Cavalier	25	198,611	28.00	506.00	65,139		2,768
Dickey	20 176	194,485		6,284.00	636,017	90,920	2,941
Eddy	145	77,300	1,220.00				898
Emmons	470	112,350					441
Foster		85,730	1,000.00				598
Grand Forks	650	349,007	3,014.00	8,950.00			2,373
Griggs	315	134,407	175.00				1,226
Kidder		47,995					411
LaMoure	40	211,600					2,536
Logan		115,200					536
McHenry	3,080	51,334					640
McIntosh		315,579					3,067
McLean	330	57,084					962
Mercer	270	32,715					704
Morton		96,166	1,328.00	26,350.00	40,053	3,845,898	2,852
Nelson	2,650	242,438	7,921.00	1,835.00			2,219
Oliver	390	24,700		7,495.00	60,386	500,494	680
Pembina	1,100	308,521	245.00				1,892
Pierce		77,580					707
Ramsey	1,250	198,445	25.00	15.00			2,993
Ransom	1,400	230,024		1,376.00	213,236		2,740
Richland	2,928	289,099	225.00	104.00			2,858
Rolette		80,861			255,000		1,377
Sargent	125	187,580	1,208.00	69,300.00		9,680,000	4,232
Stark	2,200	42,652	2,456.00	1,452.00		21,512	1,058
Steele	250	174,621	219.00				1,216
Stuteman	4,450	242,298	6,063.00				2,344
Towner	870	111,726	1,300.00	180.00	8,500		1,042
Trall	40	29,065	6.25				2,761
Walsh	1,502	401,711	5,980.00				3,045
Ward	180	124,890	477.00	10.00			1,544
Wills		76,231	1,410.00				1,960
Williams		7,960	135.00	897.00			160
Unorganized							
Totals	57,588	4,842,659	\$ 52,456.00	\$126,756.00	1,285,636	14,139,824	70,551

DAIRY PRODUCTS OF 1901.

County	No. pounds cheese made in families	No. pounds butter made in families	Total value of milk sold to other than cheese factories and creameries	Value of milk sold to cheese factories and creameries	No. pounds milk sold to cheese factories	No. pounds milk sold to creameries
Barnes.....	2,655	231,749	\$ 6.00	\$ 121.00	3,000	
Benson.....		100,950	7.60			
Billings.....		450				
Bottineau.....	2,060	62,307	2,190.00		2,400	
Burleigh.....		46,158	635.00			
Cass.....	950	306,838	12,500.00	1,490.00		13,642
Cavalier.....	200	240,966	455.00			
Dickey.....	580	191,473	695.00	14,166.00	670,730	185,550
Eddy.....	150	92,405	1,000.00			
Emmons.....	18	139,050				
Foster.....		42,170	600.00			
Grand Forks.....	50	337,880	2,498.00	925.00		
Griggs.....	420	108,470	250.00	800.00	21,900.00	
Kidder.....		57,557	215.00			
La Moure.....	300	289,998	240.00	130.00		
Logan.....		108,100				
McHenry.....	2,000	81,545	10.00			
McIntosh.....		298,643				
McLean.....	290	75,396				
Mercer.....	350	14,647			12,000	
Morton.....		58,105	1,891.00	38,030.00		5,934,386
Nelson.....	800	210,562	1,000.00	13.60		1,600
Oliver.....	200	31,460		9,350.00	69,000	1,074,594
Pembina.....	1,050	316,345	1,882.00	115.00		
Pierce.....		98,490	246.00			
Ramsey.....	815	190,006	1,810.00			
Ransom.....	370	223,714	650.00	2,037.00	83,900	56,005
Richland.....	2,640	337,240	180.00	111,315.00	55,000	367,557
Rolette.....	15,632	78,162	280.00	55.00	500,000	
Sargent.....	45	117,116	3,482.00	75,000.00		12,512,670
Stark.....		25,192	3,120.00	20.00	20,000	
Steele.....	1,140	159,389				
Stutsman.....	1,400	253,940				
Towner.....	923	82,966	539.00	257.00		
Traill.....		244,423	410.00	79.00		
Walsh.....	825	286,792	950.00		500	
Ward.....	250	53,399	21.50	15.00		
Wells.....		194,465	1,412.00	142.00		
Williams.....	50	2,525	1,186.00			
Unorganized.....		3,185				
Total.....	35,653	5,794,538	\$ 40,356.10	\$ 253,556.00	1,438,430	20,145,984

With the invention of the centrifugal milk separator it was supposed the old gathered cream factory would soon pass out of existence. Such was largely the case for a time, but when the separator manufacturer began making a hand machine that could be sold to the farmer at a reasonable price, the farmer saw his opportunity to dispense with a trip to the creamery every day, at the same time, have the skim milk sweet and warm for his calves and pigs. Now the gathered cream factory is coming to life again and many creameries which could not have operated on the whole milk system alone are quite successful with the gathered cream plan, or a combination of the two systems.

On the present plan of operating the gathered cream plant, the quality of the product is not quite up to standard and the question "are the advantages gained by running a creamery of this kind sufficient to affect the loss in quality," is yet to be solved. Be that as it may ten creameries receive only milk, six only cream and the remaining twenty-one both milk and cream. A tabulation of the annual reports show these creameries had 1,750 patrons milking approximately 13,921 cows. There was delivered to the various plants 29,801,673 pounds of milk and 1,386,762 pounds of cream from which were made 1,796,576 pounds of butter. There was paid to patrons for milk and cream the sum of \$300,267.44 and manufactured articles sold for \$362,304.70, making a total difference of \$62,037.26 for running expenses which include salary of butter-maker, interest on investment, and items of fuel and supplies.

In reviewing these statistics it should be remembered fourteen creameries were started the present year and were in operation only an average of five months. With no increase in the number of plants, the returns next year will show a large increase.

In addition to the butter manufactured within the state many thousand pounds of cream were shipped to Minneapolis and Aberdeen to the Minneapolis Cold Storage company, a large creamery concern operating in Minnesota and the two Dakotas. From the best information obtainable nearly one thousand hand cream separators were sold in the state. These machines have an average value of \$100. The average value of the creameries is \$3,000 making a total of \$211,000 invested in creameries and dairy separators. This with the investments in milch cows and dairy apparatus makes the creamery and dairy industry of North Dakota worth nearly three millions of dollars. No mean showing for a new state that prides itself on the quality and quantity of its wheat crop and is generally recognized as a one crop state.

DAIRY AND FOOD COMMISSIONERS.

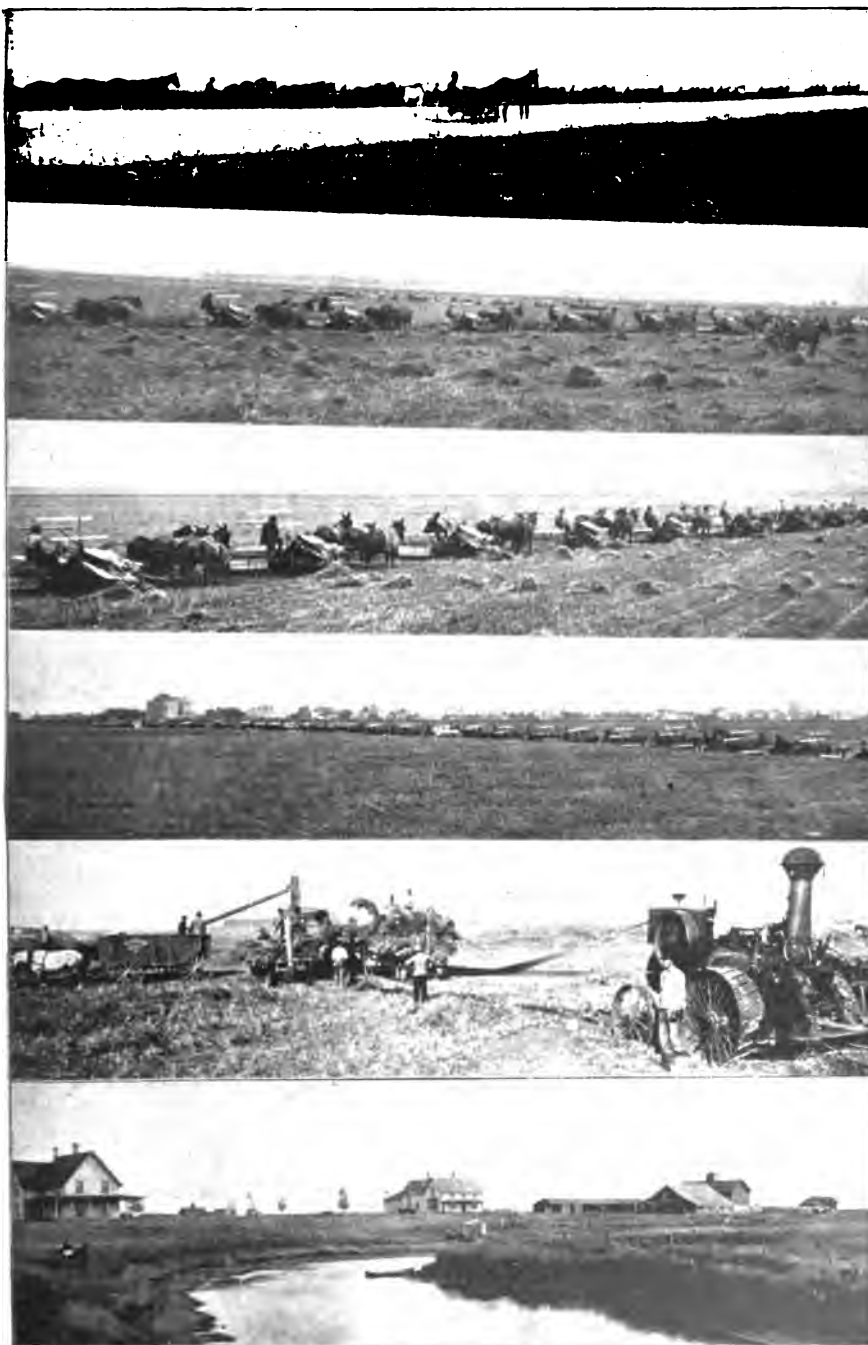
The National Association of Dairy and Food Commissioners met at Portland, Oregon, July 8-10, 1902. Sixteen states were represented, North Dakota by the assistant dairy commissioner. The

papers and discussions had largely to do with the rulings of the food commissioners and the enforcement of the pure food laws of the various states. After the close of the convention the opportunity presented itself of investigating the butter markets of Washington and Montana, and on the return trip stops were made at Tacoma, Seattle, Spokane, Butte and Anaconda. The state of Washington produces less than one-eighth of the butter consumed within the state, while Montana is compelled to ship into the state more than nineteen twentieths of the butter consumed. In the opinion of the writer North Dakota was in a good position to supply these states with all her surplus butter. The principal drawback to western shipments is the freight rates, which are very high, although the Northern Pacific Railway company have made a special rate on butter from points west of the Missouri river to points in Montana. The production of North Dakota creameries is not large enough to take advantage of car load rates, so the large creameries of Iowa, Kansas and Nebraska get the bulk of the Seattle trade even though the distance to ship is one-third greater. The Montana market requires butter to be in prints or five and ten-pound tubs, and as the retailer buys largely from the creamery, he demands that shipments be made regularly. Nearly all the butter west of the Missouri river finds a ready sale in Montana and other creameries would do well to investigate this market.

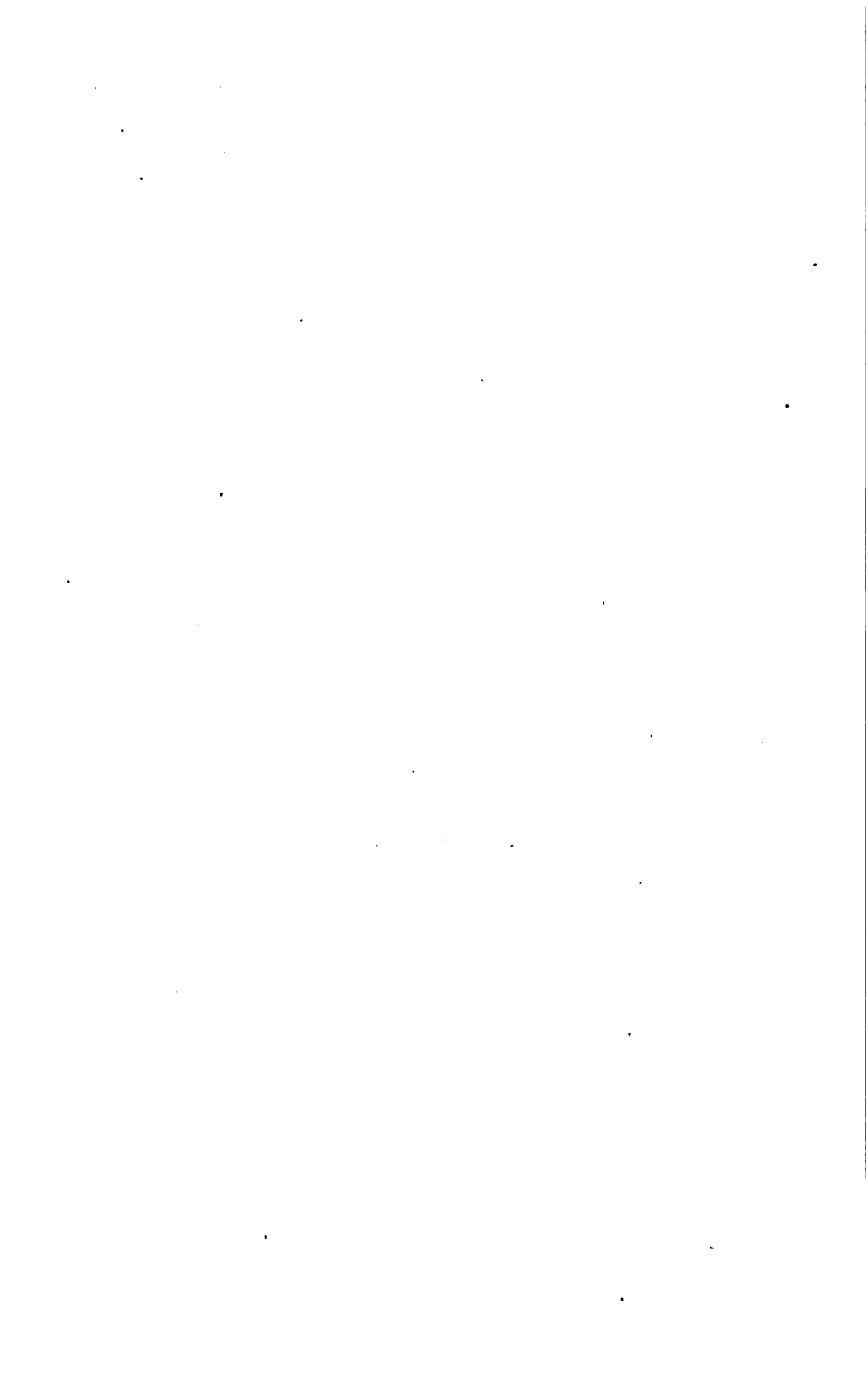
QUALITY OF NORTH DAKOTA BUTTER.

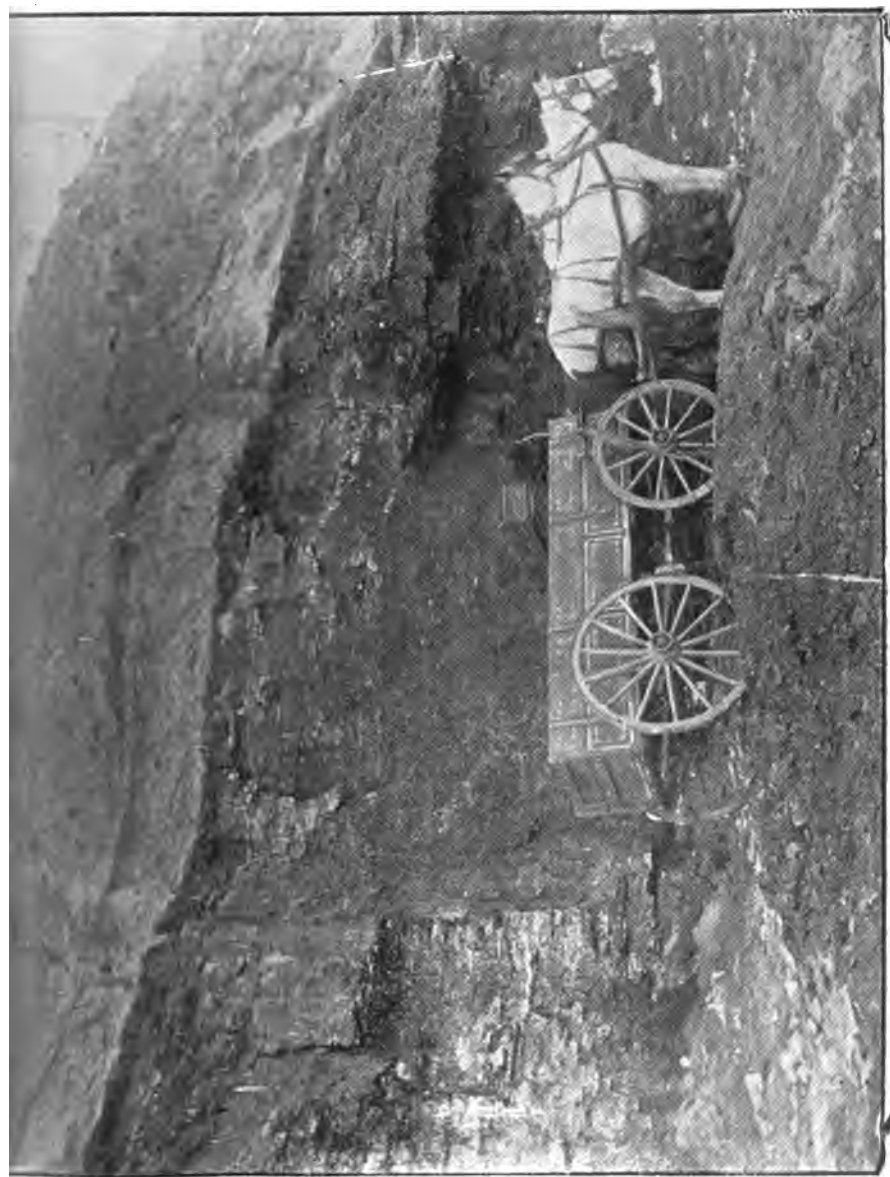
For a number of years many people had serious doubts as to the quality of butter that could be produced in North Dakota, in fact a few doubters are still to be found. No tangible reason could be given for such doubts, except tame pastures were supposed to be necessary to produce butter of a good quality in the older states, then why not in North Dakota. The ease with which our butter finds ready market should dispel any idea, there was wanting anything to improve the quality: At the Pan-American exposition held in Buffalo, New York, in 1901, North Dakota butter won third place in competition with butter from all the states in the union and Canada.

In February, 1902, two dairy conventions under the auspices of the State Dairymen's association were held—one at New Salem to accommodate the buttermakers of the Missouri slope and one at Lidgerwood for the accommodation of the buttermakers in the southeastern part of the state. The conventions were largely of the nature of farmers' institutes with special sessions for the buttermakers. At both meetings creamery butter was exhibited, which was scored by Mr. B. D. White, of St. Paul, Minnesota. Mr. White is a well known butter expert and assistant dairy commissioner of Minnesota. The butter all scored well at both places, the highest at New Salem being 96¼, and at Lidgerwood 94. The creamery supply houses



General Farm Scenes in North Dakota.





Lignite Coal Vein at Sentinel Butte.



Scenes in Richland County.

and others interested in the dairy interests of the state contributed the sum of \$70, which was divided equally between the two places for prizes.

The National Creamery Buttermakers' association in May, 1902, inaugurated a six months' educational contest. This office urged every creamery buttermaker in the state to enter the contest, promising them all the aid possible. Eight entries were recorded from this state, but only five staid in the contest and sent butter every time called upon. The average scores for the six month's contest was 93.42, 92.17, 90.75 and 90, with an average score for the state of 91.70. Eighteen states had enerties in this contest, but only five had a higher average score than North Dakota. The championship score for North Dakota was 93.42, which score was exceeded in only four states of the eighteen having entries.

The butter was all scored by the same judge and criticisms offered by experts on buttermaking, with the result that all the buttermakers state they received much benefit from the contest. If such a contest could be carried on in the state, nearly every buttermaker would enter and much good result. It would not only serve as an educator for the creamery operators, but would so improve the quality of our butter, as to make the state as famous for its dairy products as No. 1 hard wheat. But a few hundred dollars would be needed to carry on such a test and it is earnestly recommended that an appropriation be made for that purpose.

At the annual meeting of the National Creamery Buttermakers' association held in Milwaukee, Wis., Oct. 20-24, 1902, North Dakota had twelve entries in the butter exhibit. The average score for the twelve entries was 90.08, or higher than Iowa, Ohio and Michigan, while South Dakota only defeated us by four-hundredths of a point, and Kansas eight-hundredths of a point.

EXPERIMENT WORK.

For about six weeks every spring the creameries of the Missouri slope are troubled with wild onion flavor in their butter. If funds are available it is planned to experiment at one of the creameries with pasteurization of the cream in an endeavor to remove this objectionable flavor. If it can be done it means two cents on every pound of butter made in the thirteen creameries on the Missouri slope, from the first week in May to the third week in June. The money appropriated by the federal government for the experiment station can not, according to law, be used to carry on this experiment, so unless the state aids the experiment station, the work will not be done.

Now is an important time in the development of the creamery industry and every effort must be put forth to place the creameries on a good substantial basis rather than to urge the building of new

plants which will be compelled to struggle along under adverse conditions a number of years. The farmers must be taught how to produce more and better milk, and the creamery operators must be taught how to produce a butter of the highest quality. The farmers' institute can assist the creamery patrons, the holding of educational contests will assist the buttermakers. How can these two things be better accomplished than through the liberal appropriations for farmers' institutes and the dairy commission.

FARMERS' INSTITUTES.

The first farmers' institutes in the state were held under the present dairy law, the assistant commissioner being director of farmers' institutes. At the last session of the legislature a new law was enacted creating a farmers' institute board of directors and making specific appropriation for institute work. For the year ending June 30th, 1901, the institute work was under the direction of this office, and there was expended for farmers' institutes the sum of \$520.06 out of the appropriation for the expenses of this office. It has since been held that the amount appropriated for the expenses of the office of assistant dairy commissioner is only \$400, an amount totally inadequate to carry on the work of the office with the rapid increase in creamery building noted in the last two years.

Eighteen institutes were held as follows:

Town	County	Date	Attendance.
Devils Lake.....	Ramsey.....	December 5, 6	243
Churchs Ferry.....	Ramsey.....	December 12, 13	194
Monango.....	Dickey.....	December 17, 18	341
Edgeley.....	LaMoure.....	December 19, 20	432
LaMoure.....	LaMoure.....	December 21, 22	178
Milton.....	Cavalier.....	December 17, 18	279
Larimore.....	Grand Forks.....	December 19, 20	521
Lakota.....	Nelson.....	December 21, 22	327
Pembina.....	Pembina.....	January 15, 19	300
Cass.....	Cass.....	January 25, 26	403
Wahpeton.....	Richland.....	February 1, 2	574
Valley City.....	Barnes.....	February 8, 9	653
Crystal.....	Pembina.....	February 15, 16	679
Buxton.....	Trails.....	March 1, 2	462
Finley.....	Steele.....	March 8, 9	450
Grafton.....	Walsh.....	March 13, 14	683
Thompson.....	Grand Forks.....	June 13	86
Drayton.....	Pembina.....	June 14, 15	267

The table shows a total of eighteen institutes with a total attendance at all sessions of 7,077 or about 2,000 different farmers attended the institutes.

Requests were made for meetings at a number of other places, but had to be refused.

The publication of the Institute Annual, the first number of which

had been so well received by the farmers, was continued. An edition of 10,000 copies was printed as in the previous issue. The edition of the annual for 1900 is completely exhausted, and the repeated calls for the 1901 annual will soon exhaust this edition, showing the number of copies printed is already too small.

In his annual report for 1901, the secretary of agriculture in speaking of farmers' institutes says: "I am convinced that the publications of the department and the experiment stations do not in themselves constitute all-sufficient means for the dissemination of information on agricultural subjects among our people. While the work of the department and the stations has already been so far disseminated and applied that it has made important changes for the better in our agriculture, the spread of the influence of these institutions is comparatively slow because the means for directly reaching the farmers which they now possess are inadequate. The farmers' institutes may in a great measure supply this lack. When properly organized they will bring to the masses of our farmers the information which they need to enable them to understand and apply the results of the work of the department and the stations, and will impress upon them by practical illustrations and demonstrations the benefits which advanced scientific knowledge may confer upon our agriculture. Through the institutes, as in the case of other educational agencies, the living teacher coming in contact with the living worker can produce results which it is hopeless to expect from printed documents, however well written and illustrated."

Respectfully submitted,

E. E. KAUFMAN,

Assistant Dairy Commissioner.

FINANCIAL STATEMENT

Statement of receipts and expenditures from July 1st, 1900 to
June 30th, 1901:

RECEIPTS.

State appropriation.....	\$ 1,000.00
Milk licenses.....	40.00
Advertising	438.50
Total	<u>\$ 1,478.50</u>

EXPENDITURES.

Railroad fare.....	\$ 223.49
Bus fare.....	4.25
Telephone	18.60
Telegrams	1.15
Stenographer and typewriter rent.....	59.50
Miscellaneous	1.25
Stationery and printing.....	70.50
Postage	44.05
Drayage	3.00
Freight	5.65
Boxes	4.25
Express	10.15
Hotel	310.00
Livery	39.00
Institute annual.....	684.00
Total	<u>\$ 1,478.84</u>

EXPENDITURES FOR FARMERS' INSTITUTES.

Railroad fare.....	\$204.81
Hotel	228.25
Postage	10.00
Express	4.75
Freight and drayage	8.65
Long distant telephone	4.60
Bus fare	4.25
Miscellaneous	1.25
Printing posters	50.50
Livery	3.00
Total.....	\$ 520.06

FARMERS' INSTITUTE ANNUAL.

Printing 10,000 copies, 152 pages.....	\$684.00
Stenographer and rent of typewriter.....	57.50
Postage	20.00
Engraving	2.25
Express	1.25
Total	\$765.00

OFFICE AND INSPECTION.

Railroad fare	\$ 18.68
Livery	36.00
Hotel	81.75
Stationery and printing	17.75
Telephone rent, seven months	14.00
Telegrams	1.15
Stenographer	2.00
Postage	14.05
Express	4.15
Miscellaneous	4.25
Total	\$193.78

STATEMENT.

Of receipts and expenditures from July 1st, 1901 to June 30th, 1902:

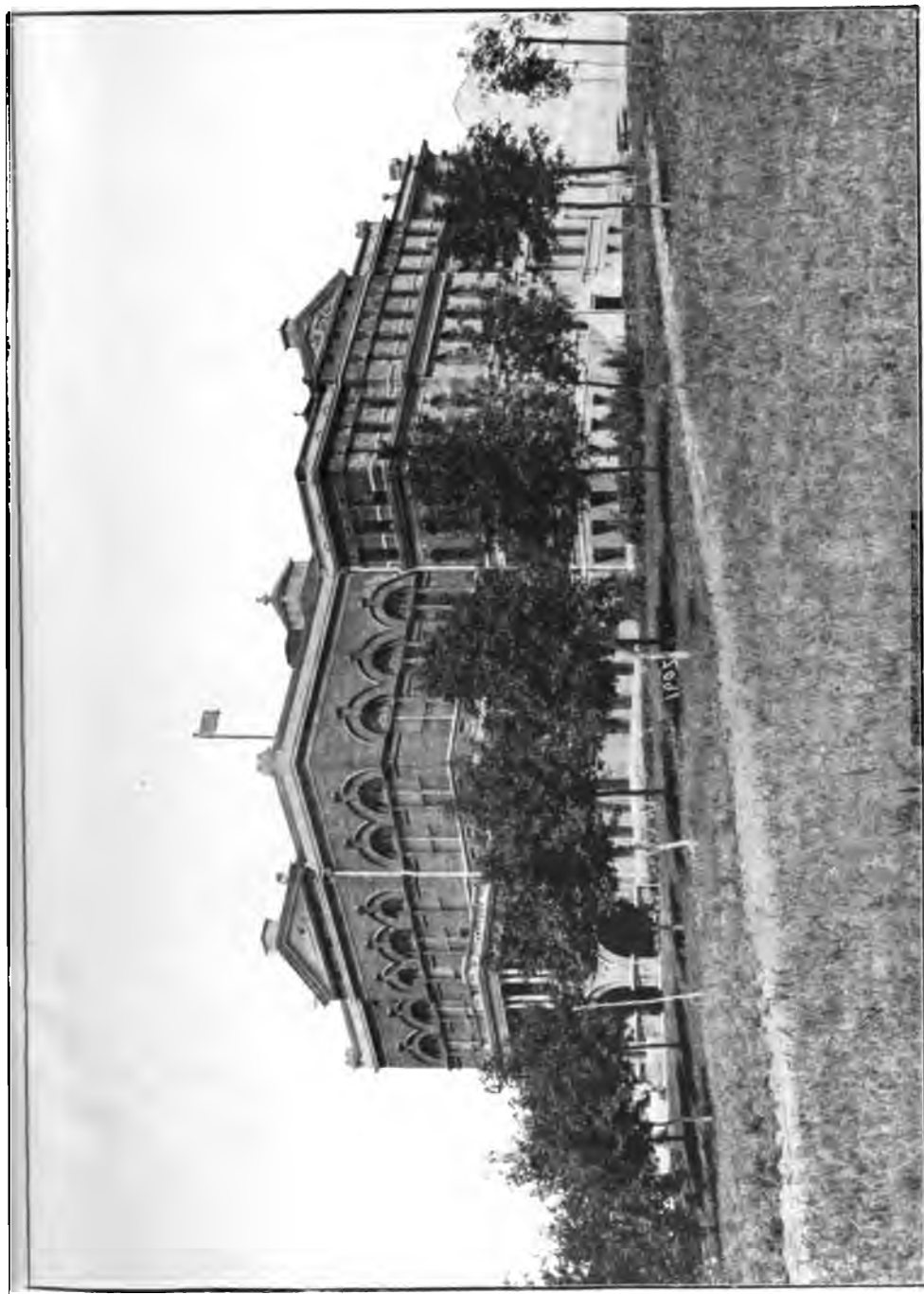
RECEIPTS.

State appropriation for two years ending June 30th, 1903..	\$800.00
Milk licenses for year ending June 30th, 1902.....	29.00
Total	<u>\$829.00</u>

EXPENDITURES.

Railroad fare	\$ 44.15
Hotel	40.60
Livery	2.50
Stenographer and typewriter rent.....	51.75
Printing and stationery	37.00
Filing case	10.50
Telephone rent	27.00
Long distance telephone.....	1.55
Freight	3.30
Drayage	1.50
Bus fare	1.00
Express	1.50
Telegrams	1.60
Postage	12.74
Expenses dairy convention at New Salem in- cluding expense of butter judge	44.25
Expenses of dairy convention at Lidgerwood including the expense of butter judge.....	52.78
Postage on 3,300 institute annuals.....	99.00
Total	<u>\$432.72</u>





State House, Bismarck.

EIGHTH AND NINTH BIENNIAL REPORT

OF THE

**Commissioner of Agriculture
and Labor**

TO THE

GOVERNOR OF NORTH DAKOTA

FOR THE

TERM ENDING JUNE 30, 1906

**BISMARCK, N. D.:
TRIBUNE, STATE PRINTERS AND BINDERS
1906**

LETTER OF TRANSMITTAL.

**STATE OF NORTH DAKOTA,
OFFICE OF THE COMMISSIONER OF AGRICULTURE AND LABOR,
BISMARCK, November 1, 1906.**

Hon. E. Y. Sarles,

Governor of the State of North Dakota:

I have the honor to herewith transmit, and through you, to the legislature the eighth and ninth biennial reports of the commissioner of agriculture and labor.

Respectfully submitted,

**W. C. GILBREATH,
Commissioner.**

INTRODUCTORY

The prosperity of the farmer of North Dakota is a source of general rejoicing to every person who is interested in the future welfare of this great commonwealth. Upon his success mainly depends the wealth and development of this state. It is, therefore, extremely gratifying to present for your consideration evidences of the substantial growth and unprecedented success which have attended the cultivators of the soil, the stockmen and those engaged in industrial pursuits.

The accompanying report embraces a period of four years, which have been marked by unsurpassed financial profits and abundant harvests for those who have used the soil for cultivating or grazing purposes. Production during that period has been unequalled by any previous four years since North Dakota entered statehood. The coming of settlers, the introduction of new and improved methods of cultivation, as well as the raising of different kinds of grains, have conduced to make farming not only profitable but the basis of wealth in this state.

It must be a source of satisfaction to every citizen to have the assurance that the commercial and industrial triumphs of this state have just begun. No state in the union possesses a population of higher average intelligence or of more liberal and progressive views than the people of the state of North Dakota and her leadership in industry and commercialism as well as ideas will assuredly, in the near future, be recognized and appreciated.

The wisdom and conservatism which marked the action of the members of the constitutional convention and the earlier legislators of this state are now being demonstrated. The new settlers, who come from the eastern states, more keenly comprehend and appreciate the wise and statesmanlike course adopted than those who were residents of North Dakota at the time these constructive bodies were in session. It is possible that the conservatism which characterized the earlier history of this state may have had its origin in the somewhat isolated condition existing, rather than in the temperament of her people. This conclusion is based upon the eager response to appeals in recent years for a united effort and an onward movement for the development of the latent resources of this magnificent country.

North Dakota is on the eve of a railroad development which it is justly entitled to receive. The controlling forces in transportation in the great eastern centers are awakening to the matchless possibilities of the soil, and it now appears probable

that within a few years there will be the additional lines of rail-ways entering from the eastern to the western boundary lines of this commonwealth. New railroads will be constructed in the western part of the state opening up the vast and fertile Missouri Slope country, which has received thousands of settlers during the past five years. The accession of these railroads will accelerate the development of our state, attract settlers, induce capital and place North Dakota in the front rank of the new, enterprising, progressive and aggressive states of the west.

Our people recognize that we are living in a commercial age; that the mastery by man of the forces of nature have practically eliminated the elements of time and distance and united all the component parts of this world in one. No state can attain greatness unless it is in communion with the shipping centers of the world. The great drawback to many parts of North Dakota has been due to isolation, an inability to market her products at a minimum cost. The construction of these new lines of competing railroads will remove in a great measure this obstacle and place her in a position where the cost of transportation of the products of the soil to the market centers will be greatly reduced and the farmers reap a richer reward for their labors. With these proposed accessions; improved methods of farming; more careful cultivation of the soil; an enterprising and industrious class of farmers there is just reason for concluding that North Dakota occupies superior vantage ground from an agricultural and commercial standpoint.

The rural mail delivery and the farm telephone, which have reached so many of the farmers' homes, have added much to the desirability of farm life and the sociability of every community. With the newspaper left at the door and the telephone for communication with the neighborhood, the town or the city, the barrier of isolation has been removed and the rural people are being brought in close touch with the large centers. Aside from the sociable features brought about by the use of the telephone, its use to the farmer as a means of rapid communication in cases of necessity is beyond computation, accomplishing as it does in a few hours, what formerly took days, to say nothing of the loss of time.

While the rainfall may have been excessive in the valleys, it has materially assisted the western part of the state and has aided largely in increasing the yield of all kinds of grain and has been of great benefit in producing bountiful hay crops and enabled the stockmen to provide abundant feed for their stock during the winter months. Since the rapid settlement of the vacant lands in this state farmers realize that they can no longer depend on the wild prairie grass for their supply of feed for stock, and they are, therefore, devoting considerable acreage to cultivating grasses and fodder crops, the domestic article giving abundant returns

where proper care has been taken in growing it. Not only this, but the shrewd farmer is turning his attention to raising alfalfa, brome grass, speltz, and other grains of a similar nature. Speltz has proven a great horse feed and is an easy and sure crop, yielding prolifically. Macaroni wheat has come to stay and its yield exceeds other kinds of wheat. It withstands the drouth. Corn is an increasing crop. While the report shows a small average yield to the acreage planted, it must be borne in mind that a large portion of this acreage was planted for fodder corn, the assessors failing to note this important fact in making their reports. From information gleaned outside of the reports from county assessors, it is found that the yield of corn ranges from thirty to fifty bushels to the acre, when properly cultivated. The attention given to producing corn has resulted in the dairy cow, beef steer and hogs. With increased acreage has come more careful and improved methods of cultivation. As the vacant land becomes settled, it necessarily advances in value, hence the farmer observes the necessity of making each acre bring him a greater revenue.

The attention given to all kinds of grain which furnish feed for stock has had the tendency to increase the value of the latter. The settlement of the government and the purchase of railroad lands has resulted in a decrease of the large cattle herds which roamed at will over the unbroken and free-for-all prairies. The consequences are that while there is a less number of head of live stock to-day than there was a few years ago, the grade of the stock has been noticeably improved. The farmer realizes that it costs no more to maintain a good animal than it does to feed a poor one, hence he has given attention to advance the quality of his stock by better breeding. The majority of the farmers recognize the value and importance of stock industry and as a consequence there has been a radical tendency toward improvement in breeding and selection. The breeding of dairy stock has been a step in the right direction. A large number of imported thoroughbred animals of different breeds is noted, and the enthusiasm and good judgment shown by these men who are industriously laboring to raise the stock standard is worthy of the highest praise.

The poultry industry has developed into large proportions and its importance is shown by the statistics attached hereto.

All branches of industry have improved in a remarkable degree during the years covered by this report. A careful perusal and comparison of the figures covered in this report will disclose some startling facts to those who are anxious to note the growth and development of North Dakota during this period. Fruit culture is on the increase and this state is forging to the front in the line of horticulture.

The coal industry is advancing because of the large demand for lignite. A large amount of capital is being invested in machinery for the development of large mines. The supply of coal

is scarcely equal to the demand. The matter of briquetting continues to interest and experiments are still in progress, but the problem is so far without solution. In this connection the legislature should pass a law requiring all coal mines operated to make a direct detailed report to this department.

Your attention is directed to the many county fairs held in this state. These friendly contests are worthy of recognition and state aid as they are accomplishing great and lasting benefits for the state. I would recommend that a law be passed requiring the secretary of each fair association to make a complete report to the commissioner of agriculture and labor giving date of fair, showing the value of the property owned, the amount of receipts and expenditures in detail. The state could not make a wiser provision than by the enactment of a law providing that when a county or district agricultural society composed of one or more counties has made its report to the commissioner of agriculture and labor (after the first year) when it is shown that it has raised during any year a sum of money not exceeding two hundred dollars from actual membership, it shall be entitled to draw from the state treasury a similar amount upon filing an affidavit with the state auditor, signed by the president, secretary and treasurer that such sum was raised for legitimate purposes for the society during the current year, accompanied by the certificate of the commissioner of agriculture and labor that it has reported according to law. This plan would prove an incentive to the organization of fairs in all the counties and accomplish great and lasting results.

I wish particularly to direct your attention to the report of Assistant Dairy Commissioner R. F. Flint, found elsewhere and to commend the excellence of his efforts in promoting this branch of profitable industry. The dairy interest is increasing yearly and becoming of such great importance that it requires a larger appropriation and more than one man to give it the attention that it deserves. It will be shown by Mr. Flint's report that he has spent the greater part of his time in field work and while this is true, he has been unable to meet the demands made upon him. The legislature should see the value of fostering and advancing this great industry and should extend valuable aid to it by making such an appropriation as will permit the employment of another assistant dairy commissioner, so that the work can be thoroughly, systematically and completely covered at least twice a year. Meetings of the patrons and others interested in this line of work should be held in each community where a creamery is located and should be attended by an assistant dairy commissioner who should spend from four to six days in discussing problems for the improvement of conditions, assisting those engaged in this work, arousing greater interest and getting others, who have not

given the creamery their support, to come to its assistance and aid it in extending its field of operation.

PROMOTION OF IMMIGRATION.

At the last session of the legislature there was appropriated the sum of twenty thousand dollars for the purpose of carrying into effect all laws relating to the publication of the advantages offered to settlers and investors for lands in the state of North Dakota.

This very liberal appropriation, at that time, has been the means of bringing thousands of people to this state, and has opened up a flood of inquiries which must result in bringing as many more to North Dakota. It is needless to dwell upon the great increase in population during the past two years or tell of the melting away of the government land, or of the vast sales of railroad, state and private lands or to write of the wonderful development of commercial industry, for these facts are apparent to every citizen of this state. The only questions involved in this report are, what was done with the money and what has been accomplished. To answer these questions seriatim it may be stated that the campaign of educating the people of the great east was begun by publishing a series of articles which appeared simultaneously in the leading daily newspapers of Minneapolis, Chicago, Des Moines and Indianapolis. These articles were devoted to subjects vital to homeseekers and explanatory of what this state had to offer those seeking new homes. This work was followed by the publication of 50,000 maps corrected up to date, showing the proposed lines of railroads and the new towns established. It was well that these maps came before the completion of the articles in the eastern papers, for there immediately came a deluge of letters asking for maps and more information. The department was so besieged with inquiries, aroused by the newspaper publications that it was deemed wise to have published fifteen thousand copies of a folder enclosing a map of the state. This folder contained many facts regarding the state in a condensed form. But they met the issue and the demand was so great that the supply was soon exhausted and the department was compelled to duplicate the order.

From the innumerable letters received and the interest shown in the state by the people of other states it was decided to gather samples of grain raised in 1905, and visit several state fairs and let the people see what North Dakota produced. In accordance with this purpose an exhibit was collected and placed on exhibition at the state fairs held in Minnesota, Indianapolis, Ind., and at Springfield, Illinois. That these exhibits proved beneficial to the state by the accession of several hundred people who came as the direct result of the exhibition of the products of the state can be proven beyond any doubt. The interest taken in those ex-

hibits was beyond description and the eagerness and interest shown and the many questions asked was a revelation to those who were in charge of the products.

Twenty thousand copies of the articles published in the daily papers were reproduced in pamphlet form and distributed where they would do the greatest good and bring the best results. Then the state press was appealed to and the newspapers of each county were offered a prize for the best written articles showing the advantages, growth and development of their respective counties. Many of the papers entered this contest with commendable zeal and produced some very superior articles which have been in many instances reproduced and proven effective means in advertising the state. This was followed by a series of ten articles, written by a special correspondent, appearing in six different eastern dailies. That they were widely read, created a favorable impression and induced immigration there can be no doubt. Again came the demand for more specific information, and again the department was compelled to issue a revised map with later statistics together with new literature.

In February there was held in Bismarck a meeting of the real estate dealers of the state. Great interest was taken in this gathering and it resulted in arousing confidence, a free exchange of views and a determined effort to work together for a common cause—the increase of North Dakota's population. A thousand copies of the addresses made were printed in pamphlet form and distributed.

So keen had become the appetites of the people of the east for anything and everything pertaining to this state and so persistent were the demands for additional information, it was deemed best to publish a monthly magazine and in detail give an account of each county in the state. By the adoption of such a method all the state would be represented and no part thereof suffer by failure to be properly mentioned. It was a hazardous undertaking and involved a large amount of labor. It was decided to publish ten thousand copies of the first issue, copiously illustrated and await results before proceeding with the next number. The publication of a monthly magazine by a state was an innovation and it might prove a lamentable failure and therefore it was no wonder the promoters of this project entered into this work with fear and trepidation. It is very gratifying to chronicle the fact that scarcely had the first issue come from the press than it was gone, and there was a demand for more. The strong point about the North Dakota magazine is its half-tones. These show the evidence of things real and are convincing to the people who have never visited North Dakota and who may imagine that the state is crude in public and private buildings, that the outbuildings consist of logs covered with straw or hay and that the live stock is of an inferior grade. These views convince and impress and

place North Dakota in its true light. Five issues have been published and distributed and a sixth number is now partly in the hands of the printer.

The North Dakota Magazine has met the wants of those seeking reliable information, a correct understanding of its many advantages and the golden opportunities which this state offers to those seeking homes and investments and to discontinue its publication would be a serious calamity.

The marked success which attended the exhibit at the various state fairs in 1905 was an incentive to make another attempt this year. In accordance with this plan prizes were offered for the best and largest assortment of grain and grasses. Fourteen counties very promptly responded and as a result of this contest the state had a most excellent and superior collection with which to fill its exhibition cases. Competent persons selected the best grains and grasses and willing and expert hands placed them in the cases in an attractive manner. It is no exaggeration to state that a hundred thousand people visited the North Dakota exhibit at Milwaukee, and Elkhorn, Wisconsin, and Springfield, Illinois. The exhibit was larger and more elaborate this year than in 1905, and attracted a greater number of people who were profuse with their compliments. In this exhibit were every kind of grain and grasses raised in the state. It included a splendid display of pottery, lignite coal, different kinds of clay and many other things which abound in North Dakota. Those who had in charge this fine collection were proud to be associated with it and could the people of this state have heard the many favorable remarks made, not only respecting the exhibit, but the state as well, they would have been delighted to have proclaimed: "I am a citizen of North Dakota."

The Milwaukee papers spoke in complimentary terms of the exhibit and the superintendent of the agricultural department assured us that the North Dakota display was the attraction of the agricultural hall. The Elkhorn Independent said in its heading: "North Dakota leads them all," and then proceeded to say: "Great is North Dakota. If never before the thousands who have seen that state's exhibit on the fair grounds this week, take hats off to her mighty resources. The exhibit, located on the north front of the Floral hall, has the most extensive display of cereals, fruits, and other products of the soil that Walworth county fair patrons have ever seen. It is in charge of W. C. Gilbreath, commissioner, and wheat, oats, rye, corn and speltz, a comparatively new grain to Wisconsin farmers and alfalfa, all gathered from within the borders of North Dakota, speak for themselves as to what the farmer can do there. The exhibit, which is flanked by a fine array of Indian bead and buckskin work and taxidermy, is neatly displayed and one of the attractions of fair week."

"Crops are good and have been good in North Dakota. Macaroni wheat, so extensively grown in some portions of that state, is yielding from 18 to 30 bushels per acre. The blue stem and red fife are averaging 15 and 16 bushels, while barley and speltz are excellent. North Dakota farmers are claiming great things for speltz. It is a great horse feed. A handy, sure crop and frequently yields from 40 to 60 bushels per acre. It is also being used extensively by confectioners, the speltz flour being particularly adapted to this line of business. * * *"

The exhibit is attracting hundreds of visitors and is worth all the time one can spare."

The Springfield Illinois State Journal said, under the caption, "North Dakota exhibit attracts great crowds." All who, during their rambles at the state fair yesterday wandered to the second floor of the Dome building, were immediately attracted by the throng which surged about the booth occupied by the North Dakota exhibit.

Though similar in some respects to the many other agricultural displays which crowd the upper floor of the building on every side, the very attractiveness of the decorations as well as the very remarkable specimens which constitute it, give it a distinction and prestige over all surrounding competitors which immediately captivates the attention of every visitor.

The walls of the booth are very artistically decorated with a profusion of the many different grains and vegetables in the production of which North Dakota holds an envied position. Wheat, of course, plays a very prominent part in the general effectiveness of the display, and the specimens exhibited certainly tell a marvelous story of the wonderful resources of the state in the production of this most essential of grains, its yield of which for the year 1906, according to the most conservative estimates, will exceed 100,000,000 bushels.

Alfalfa, brome grass, timothy and clover are also grown in great abundance throughout the state, excellent samples of which aid to make up the display. Another very noteworthy production, one almost peculiar of North Dakota alone, is a rather unusual grain called spelt. It looks it resembles barley. It is a great horse feed, a hardy, sure crop, and frequently yields 40 to 60 bushels per acre. It is also being used extensively by confectioners, the spelt flour being especially adapted to this line of business.

Not only is this wonderful state one of the foremost in the union in the production of grains, but also holds a high position in the output of minerals of various kinds, the numerous samples of which on exhibition speak more forcefully than can cold newspaper print. Among these is a specimen case containing a quantity of "lignite" coal, a very excellent fuel for heating purposes and particularly attractive because of its very reasonable cost,

namely, about 90c per ton at the mines. Over 25,000 square miles of land are underlaid with this most valuable mineral.

A very unique feature and one deserving of especial mention among the very commendable list, is a large plate glass case in the foreground of the exhibit containing a beautiful collection of vari-colored pottery of different shapes and designs made of a clay which exists very extensively throughout the state. Mr. Gilbreath, who is in charge of the exhibit, predicts that the pottery industry is destined to become one of the leading manufacturing industries of the state.

As space will permit of only a casual mention of a few of the many attractive features of this wonderful display of the products of both soil and industry, it is impossible for one to grasp its full magnitude without seeing for himself that which our neighbor statesmen have exhausted no end of time and money to present to us for inspection.

Many interesting and instructive features are included among the more staple array, the one causing the most comment, possibly, is the beautiful collection of Indian relics on exhibition in the cases about the walls.

It is truly an education. Hundreds of appreciative visitors have been profuse in their expressions of congratulation and good wishes.

The same paper in a subsequent issue, under the headlines of "North Dakota leads. Wins sweepstakes ribbon for excellency over outside exhibits." The exhibit made by the state of North Dakota at the state fair under the direction of the commissioner of agriculture of that state, was awarded the sweepstakes ribbon for its excellency over all outside exhibits."

This speaks volumes for this rapidly growing state and the increased immigration to North Dakota, as a result of this showing is difficult to estimate."

The work of dissemination of proper literature, the education of the masses of eastern people as to the true status of affairs in North Dakota and the interest aroused in the minds of so many people to change their homes and better their condition has been auspiciously begun. While thousands of people have become citizens of our state through the mediums employed by this department and as many more are looking with longing eyes toward this country and hope to come and share in its advancement and prosperity, it would seem, from every standpoint one could look at it, that it would prove a serious and lasting mistake not to keep up this good work. While we cannot estimate the true value of what has been accomplished or can we tell the exact number of persons that have been induced to come to this state, by these methods, yet we do know that on all sides we hear a song of wealth and happiness. This song is heard in the city as well as on the farm; in the humble home as well as in the mansion. It is

distinctly heard in the deep tones of the mighty engines as they rush on, bearing our freights of treasure to the great centers of trade of the world. This cheering and beautiful song has enticed the hoarded capital of the east from its secret hiding places and has lured it to North Dakota to build factories, develop its resources and make it the great state which the Almighty intended it should be. North Dakota has been advertised from shore to shore; from Canada to the Gulf of Mexico and the people are proud of their state and rejoice in its prosperity. Shall North Dakota continue in its onward march of accumulating wealth, increasing its population and developing its great inherent resources or shall it lapse and lose much of that which it has gained? This is the vital question for the legislature to decide.

Respectfully,

W. C. GILBREATH,
Commissioner of Agriculture and Labor.

FINANCIAL REPORT

The following is a report of the receipts and expenditures of the fund for the promotion of immigration:

	Cr.	Disbursements
January 1, 1905—Balance old appropriation...	\$ 104.14	
January 1, 1905—From former appropriation..	252.17	
March 1, 1905—From appropriation.....	20,000.00	
May 21, 1905—Sale of maps.....	64.00	
November 16, 1906—Sale of maps.....	315.00	
March 31, 1905—Miss Fanny Slattery, stenog- rapher		\$ 60.00
April 30, 1905—Miss Fanny Slattery, stenog- rapher		60.00
May 2, 1905—W. C. Gilbreath, expense, trip to twin cities		21.25
June 1, 1905—Miss Fanny Slattery, stenog- rapher		60.00
June 5, 1905—Minneapolis Journal, publishing articles		987.00
June 30, 1905—Miss Fanny Slattery, stenog- rapher		60.00
July 28, 1905—Miss Fannie Slattery, stenog- rapher		60.00
August 1, 1905—W. C. Gilbreath, expense, trip to Chicago		25.00
August 4, 1905—Eric Sundquist, freight and drayage, maps.....		26.56
August 8, 1905—Expense, state exhibit, Minne- sota		200.00
August 19, 1905—Pioneer Press, 10,000 copies, N. D. Record.....		457.00
August 28, 1905—Expense, N. D. exhibit.....		300.00
August 31, 1905—Fanny Slattery, stenog- rapher		60.00
September 18, 1905—W. C. Gilbreath, state ex- hibit, Indiana		300.00
September 30, 1905—Fanny Slattery, stenog- rapher		60.00
October 3, 1905—Grambs & Wolbert, hardware and glassware for cases.....		103.15
October 3, 1905—Bismarck-Washburn Lumber Co., lumber for cases.....		61.38
October 3, 1905—Webb Brothers, merchandise		7.49
October 3, 1905—Wachter Dray Co., drayage..		4.00
October 3, 1905—Beardsley & Finney, sun- dries		2.00
October 17, 1905—Rand, McNally Co., 50,000 maps		630.00

October 17, 1905—Geo. F. Blackburn, photographs	23.00
October 31, 1905—Fanny Slattery, stenographer	90.00
November 3, 1905—Expense, state exhibit, Illinois	740.31
November 7, 1905—Hugh Jackson, making cases	52.00
November 7, 1905—Wm. Forgestrom, making cases	52.00
November 7, 1905—Christ Engered, making cases	22.75
November 7, 1905—John Massen, painting	8.00
November 7, 1905—Wachter Dray Co., drayage	5.50
November 7, 1905—E. L. Faunce, dry glue..	.88
November 23, 1905—W. N. Steele, expense, Portland exhibit	85.12
November 23, 1905—Nels White, drayage....	35.00
November 23, 1905—Expense, publishing articles, state newspapers.....	1,850.00
November 29, 1905—Fanny Slattery, stenographer	75.00
December 23, 1905—Fanny Slattery, stenographer	75.00
January 3, 1906—Northern Pacific Express Co., express.....	.80
February 1, 1906—Fanny Slattery, stenographer	75.00
February 21, 1906—Expense, corn contest, and history of counties.....	254.69
March 1, 1906—Fanny Slattery, stenographer	75.00
March 1, 1906—Eric Sundquist, freight on newspapers	25.17
March 31, 1906—Fanny Slattery, stenographer	75.00
April 6, 1906—Minneapolis Journal, publishing articles	751.50
April 6, 1906—Tribune Printing Co., printing folders	502.50
April 6, 1906—Rand, McNally Co., 32,000 maps and cuts.....	430.50
April 6, 1906—Forum Printing Co., 5,000 copies, Forum.....	250.00
April 6, 1906—Pioneer Publishing Co., printing	125.00
April 6, 1906—Holmbor Bros., photographs...	6.00
April 6, 1906—Eric Sundquist, drayage.....	2.00
April 30, 1906—Fanny Slattery, stenographer	75.00
May 9, 1906—Pioneer Printing Co., pamphlets and folders.....	215.00
May 9, 1906—J. W. Foley, furnishing article	25.00
May 10, 1906—Pioneer Pub. Co., sundry printing	34.50
May 10, 1906—W. C. Gilbreath, sundry expenses	13.35
May 10, 1905—W. E. Buttler, photographs....	3.25
May 31, 1906—Fanny Slattery, stenographer	75.00



Threshing in North Dakota.



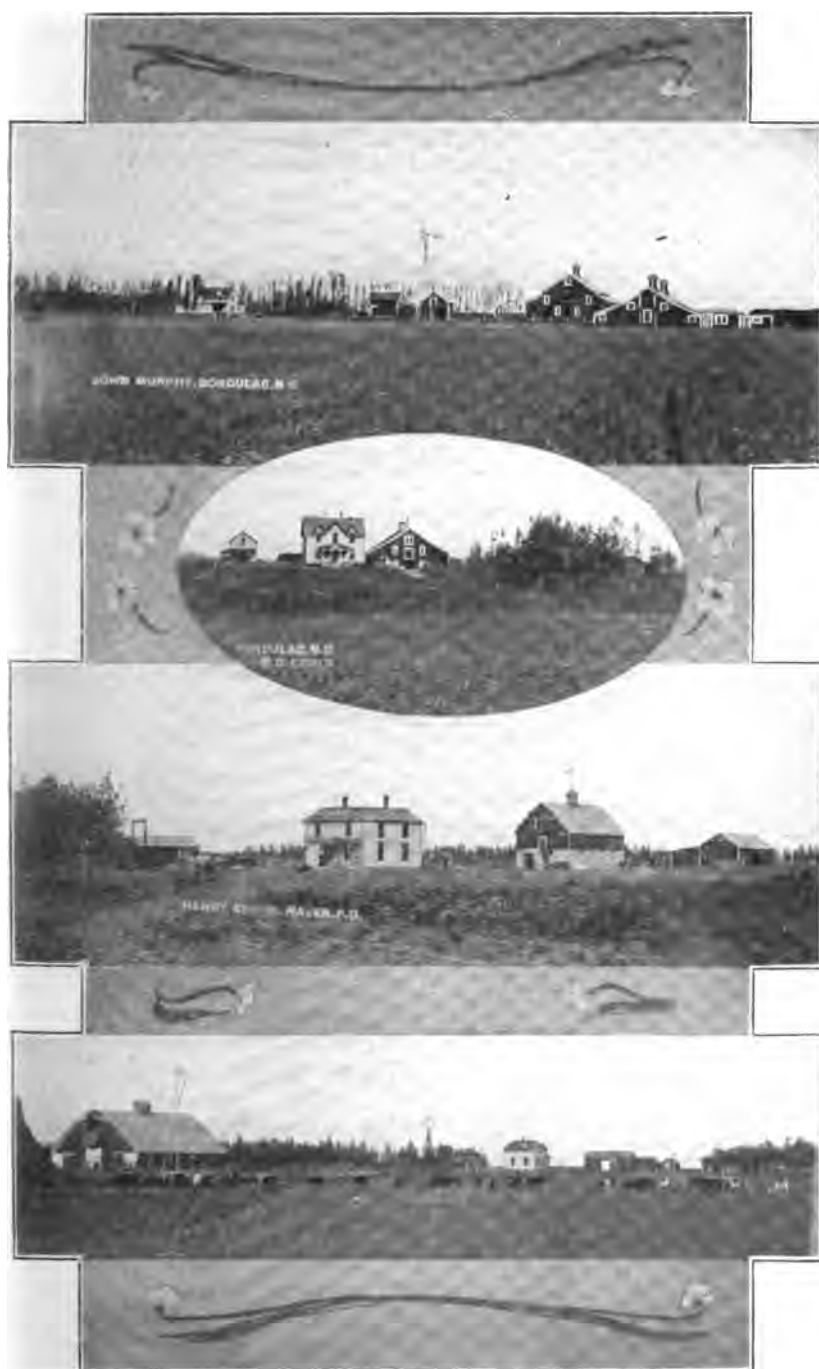
North Dakota Creamery.



Settler's First Home.



Elevator Scene.



Farm Houses.

June 2, 1906—F. M. Baldwin, proof reading..	4.00
June 27, 1906—Chicago Inter-Ocean, publish- ing articles	720.00
June 27, 1906—J. Manz Eng. Co., half tones	98.75
June 27, 1906—Chicago Inter-Ocean, publishing articles	540.00
July 2, 1906—Fanny Slattery, stenographer...	75.00
July 5, 1906—Pioneer Publishing Co., print- ing. laws, envelopes and articles.....	151.50
July 5, 1906—Minneapolis Engr. Co., half tones	61.48
August 14, 1906—Bismarck Tribune, two issues, magazine.....	1,290.50
August 14, 1906—Expense, state exhibit, Fargo fair	163.88
August 14, 1906—C. F. Carlson, assisting at state fair	50.00
August 14, 1906—Wm. Laist, assisting at state fair	50.00
August 14, 1906—P. A. Peterson, assisting at state fair.....	31.10
August 14, 1906—H. J. Gibson, expenses, state fair	13.25
August 19, 1906—F. Holmbor, photographs....	55.60
August 18, 1906—Rand, McNally Co., 5,000 maps and altering plate.....	83.00
August 18, 1906—J. Manz Engr. Co., half tones	112.80
August 18, 1906—Minneapolis Eng. Co., half tones	122.25
August 20, 1906—A. G. Patterson, P. M., post- age on magazines.....	25.84
August 31, 1906—Expense, state exhibit, Wis- consin and Illinois.....	1,500.00
August 31, 1906—Fanny Slattery, stenog- rapher	150.00
September 1, 1906—Northern Express Co., ex- press	43.82
August 5, 1906—Wachter Dray Co., drayage..	24.00
September 12, 1906—A. G. Patterson, P. M., postage, magazines.....	9.36
September 29, 1906—Fanny Slattery, stenog- rapher	75.00
October 3, 1906—Bismarck-Washburn Lumber Co., lumber	8.60
October 31, 1906—Fanny Slattery, stenog- rapher	75.00
October 31, 1906—A. G. Patterson, P. M., postage, magazine.....	8.10
November 2, 1906—Northern Express Co., ex- press	37.07
November 17, 1906—Bismarck Tribune, print- ing two issues, magazines.....	1,000.00
November 17, 1906—Bismarck Tribune, maga- zine envelopes	48.00
November 17, 1906—J. W. Foley, services on magazine	50.00
November 17, 1906—R. F. Flint, expense, state exhibit	327.64
November 17, 1906—W. C. Gilbreath, sundry expenses, state exhibit.....	500.00

October 17, 1906—Whitehead, Hoag & Co., 50,000 buttons.....	423.30
October 17, 1906—J. Manz Engr Co., half tones	63.30
October 17, 1906—Minneapolis Eng. Co., half tones	62.75
October 17, 1906—Bureau of Engraving, half tones	29.77
October 17, 1906—R. R. Donnelly Sons & Co., half tones	27.75
October 17, 1906—R. R. Donnelly Sons & Co., half tones.....	18.45
October 17, 1906—W. A. Johnson, reports.....	10.00
October 21, 1906—Wachter dray line, drayage	7.50
October 21 1906—Western Express Co., ex- press	6.77
October 21, 1906—Fanny Slattery, stenog- rapher	75.00
December 5, 1906—Western Express Co., ex- press	19.82
December 20, 1906—Fanny Slattery, stenog- rapher	75.00
December 20, 1906—Bismarck-Washburn Lum- ber Co., lumber.....	1.74
December 20, 1906—Bureau of Engraving Co., half tones.....	41.33
December 20, 1906—Pioneer Publishing Co., printing	49.00
December 20, 1906—Minneapolis Engraving Co., half tones.....	23.13
December 20, 1906—Wachter Dray and Trans- fer Co., drayage.....	7.00
	<hr/>
	\$ 20,735.31 \$ 18,185.80
Balance December 31, 1906.....	2,549.51
	<hr/>
	\$ 20,735.31 \$20,735.31

STATEMENT

Copy of statement of receipts from Brands and Sire Certificates, for period beginning July 1, 1902, and ending June 30, 1904, as reported by Hon. R. J. Turner, then commissioner of agriculture and labor:

Total receipts for brands.....\$3,378.00
Total receipts for certificates..... 365.25

\$3,743.25

Paid into state treasury..... 3,743.25

BRANDS				SIRE CERTIFICATES			
Month and Year	No. Issued	Cert. Copies	Cash	No. Issued	Cert. Copies	No. Trans.	Cash
1904—							
July	37	.....	\$ 74	4	6	.....	\$ 5.50
August	32	.....	64	1	3	.....	1.75
September	21	.....	42	1	2	.....	1.50
October	60	.....	120	...	.....	.....	.....
November	41	.....	82	...	.....	.....	.....
December	40	.....	80	1	.....	.....	1.00
1905—							
January	32	.....	64	1	8	.....	3.00
February	30	.....	60	3	9	.....	5.25
March	48	.....	96	18	102	1	43.75
April	88	.....	176	39	200	.....	89.00
May	73	.....	146	28	124	.....	59.00
June	49	.....	98	20	62	.....	35.50
July	47	.....	94	4	7	.....	5.75
August	26	.....	52	2	4	.....	3.00
September	22	.....	44	...	.....	.....	.....
October	27	.....	54	...	.....	.....	.....
November	42	.....	84	1	1	.....	1.25
December	25	.....	50	...	.....	.....	.....
1906—							
January	29	.....	58	5	31	.....	12.75
February	40	.....	80	8	29	.....	15.25
March	61	.....	122	18	93	.....	41.25
April	62	.....	124	29	183	3	75.50
May	57	.....	114	38	178	3	83.25
June	47	.....	94	14	40	3	24.75
Total	1,036	.....	\$2,072	235	1,082	10	\$508.00

Total receipts for brands and sire certificates, \$2,580.

FEES.

Recording brand.....	\$2.00
Certified copy of brand certificate.....	1.00
Sire Certificate.....	1.00
Certified copy of sire certificate.....	.25
Transfer of sire certificate.....	.25

STATE TREASURER'S RECEIPTS.

Fees.

	Receipts for last six months of 1904.....	\$ 471.75
	1905—	
7647	January and February	132.25
7736	March	139.75
7799	April	265.00
7881	May	205.00
7965	June	133.50
8474	July	99.75
8692	August	55.00
8815	September	44.00
8917	October	54.00
9034	November	85.25
9159	December	50.00
	1906—	
9732	January	70.75
9845	February	95.25
9911	March	163.25
10002	April	199.50
10051	May	197.25
10151	June	118.75
	Amount of total receipts	\$ 2,580.00

Statistical Report

For Period

July 1, 1904, to June 30, 1906

STATISTICS

NUMBER OF FARMS AND ACREAGE, 1903

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. Acres in Farms Cultivated and Uncultivated
Barnes	1,398	364,272	498,078
Benson	1,820	240,919	317,470
Billings	20	800	7,000
Bottineau	3,190	251,213	638,162
Burleigh	760	45,936	161,386
Cass	2,200	697,960	787,893
Cavalier	2,635	288,081	504,606
Dickey	740	135,344	291,692
Eddy	480	112,650	167,307
Emmons	750	52,543	211,742
Foster	363	137,010	170,663
Grand Forks	1,838	494,507	614,702
Griggs	814	204,334	297,505
Kidder	302	21,658	72,435
LaMoure	810	168,416	281,494
Logan	591	26,179	138,212
McHenry	1,610	128,143	320,574
McIntosh	808	99,083	221,230
McLean	1,633	126,556	291,880
Mercer	327	59,290	119,488
Morton	790	75,874	337,926
Nelson	1,130	25,539	39,071
Oliver	281	11,674	90,553
Pembina	1,800	401,082	520,091
Pierce	1,560	164,221	287,598
Ramsey	1,474	263,534	441,187
Ransom	837	153,673	257,530
Richland	1,290	378,968	512,382
Rolette	1,098	113,319	237,616
Sargent	910	144,270	450,680
Stark	357	37,544	130,912
Steele	929	257,225	306,998
Stutsman	1,071	225,798	437,465
Towner	1,126	234,518	311,089
Traill	1,300	375,118	424,335
Walsh	2,225	443,555	578,002
Ward	2,512	126,084	401,999
Wells	1,264	259,921	395,557
Williams	437	5,889	80,001
Unorganized	397	11,035	92,814
Total	45,877	7,363,735	12,508,325

NUMBER OF FARMS AND ACREAGE, 1904.

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. Acres in Farms Cultivated and Uncultivated
Barnes	1,384	405,882	655,093
Benson	1,970	237,494	418,827
Billings	87	2,968	10,624
Bottineau	2,573	312,800	609,342
Burleigh	973	51,259	166,564
Cass	2,200	732,273	811,296
Cavalier	2,794	337,675	553,276
Dickey	2,176	153,600	344,638
Eddy	390	105,573	153,569
Emmons	895	64,237	258,167
Foster	374	154,088	191,866
Grand Forks	1,715	475,210	603,490
Griggs	812	233,883	313,995
Kidder	396	36,238	97,739
LaMoure	945	187,595	313,393
Logan	680	78,909	108,854
McHenry	1,378	134,755	297,646
McIntosh	820	100,000	220,088
McLean	1,736	136,539	297,882
Mercer	327	60,500	121,000
Morton	904	75,777	369,799
Nelson	1,180	240,774	393,678
Oliver	353	12,949	114,052
Pembina	1,862	427,405	545,200
Pierce	1,387	183,742	298,972
Ramsey	1,411	303,738	449,607
Ransom	768	153,001	236,166
Richland	1,360	395,974	528,534
Rolette	1,063	120,346	238,664
Sargent	950	162,028	300,218
Stark	379	39,420	147,260
Steele	1,002	280,565	328,513
Stutsman	1,102	221,200	482,218
Towner	994	229,676	340,687
Traill	1,300	423,343	483,271
Walsh	2,460	470,087	605,333
Ward	4,199	258,046	699,080
Wells	1,303	237,310	348,832
Williams	602	11,167	78,083
Unorganized	410	12,210	99,670
Total	49,614	8,260,236	13,635,186

NUMBER OF FARMS AND ACREAGE, 1905.

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. Acres in Farms Cultivated and Uncultivated
Barnes	1,448	431,820	587,983
Benson	1,980	274,631	470,151
Billings	215	2,432	16,000
Bottineau	2,746	382,611	664,494
Burleigh	765	63,443	198,496
Cass	2,212	760,917	863,724
Cavalier	2,790	332,411	487,665
Dickey	801	163,064	354,928
Eddy	472	121,297	209,451
Emmons	820	75,075	269,587
Foster	401	145,621	198,960
Grand Forks	1,769	513,947	662,893
Griggs	799	219,559	306,440
Kidder	355	24,395	81,838
LaMoure	650	209,425	325,049
Logan	755	39,158	171,888
McHenry	2,150	210,750	310,955
McIntosh	792	107,860	302,899
McKenzie	153	1,856	29,481
McLean	2,141	177,718	479,268
Mercer	407	60,500	119,549
Morton	1,422	88,692	402,608
Nelson	1,107	280,591	400,432
Oliver	461	21,844	123,303
Pembina	1,872	433,633	558,148
Pierce	1,355	211,768	296,110
Ramsey	1,386	395,754	466,859
Ransom	903	177,539	315,066
Richland	2,166	458,364	617,419
Rolette	1,057	101,528	156,628
Sargent	922	169,361	311,102
Stark	385	40,020	147,860
Steele	878	291,673	365,298
Stutsman	1,234	272,077	499,617
Towner	1,059	263,002	384,590
Traill	1,030	395,657	455,855
Walsh	2,499	498,312	649,784
Ward	5,498	379,014	912,665
Wells	1,197	319,710	564,641
Williams	1,330	26,855	205,117
Unorganized	419	12,920	100,229
Total	52,801	9,156,804	15,045,030

NUMBER OF FARMS AND ACREAGE, 1906.

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. Acres in Farms Cultivated and Uncultivated
Barnes	1,514	447,229	637,601
Benson	1,990	265,917	399,420
Billings	250	3,072	18,779
Bottineau	2,907	445,400	814,495
Burleigh	852	67,267	204,915
Cass	1,739	726,345	793,329
Cavalier	2,946	384,858	551,255
Dickey	807	163,672	352,279
Eddy	499	152,586	233,971
Emmons	843	84,046	294,313
Foster	497	182,890	210,680
Grand Forks	1,746	515,292	641,873
Griggs	798	234,678	328,393
Kidder	826	27,716	72,674
LaMoure	763	233,157	366,052
Logan	987	56,462	238,503
McHenry	3,170	256,982	479,438
McIntosh	802	98,057	302,899
McKenzie	205	4,837	27,471
McLean	2,637	154,519	422,376
Mercer	541	40,601	135,066
Morton	1,127	114,207	492,071
Nelson	1,153	301,372	442,657
Oliver	481	28,556	136,896
Pembina	1,463	407,004	510,506
Pierce	1,257	233,603	342,087
Ramsey	1,383	343,482	619,617
Ransom	903	185,130	302,303
Richland	2,116	429,300	593,814
Rolette	1,067	146,936	307,352
Sargent	935	169,784	290,242
Stark	375	42,500	151,600
Steele	823	282,799	366,151
Stutsman	1,138	286,950	473,266
Towner	987	252,694	347,264
Traill	1,300	370,659	422,338
Walsh	2,122	439,588	603,475
Ward	5,657	473,302	1,048,798
Wells	1,210	314,720	477,688
Williams	1,007	25,513	150,350
Unorganized	620	102,000	112,900
Total	54,443	9,495,682	15,722,107

WHEAT, 1902.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	154,873	137,123	2,416,732	17.62
Benson	32,017	31,629	630,273	20.00
Bottineau	84,914	82,835	1,493,461	18.03
Burleigh	19,434	16,956	187,726	11.08
Cass	385,855	369,000	3,388,630	9.18
Cavalier	114,274	114,159	2,426,962	21.26
Dickey	68,997	61,848	740,023	11.96
Eddy	14,026	13,940	286,798	20.57
Emmons	36,475	35,926	377,606	10.51
Foster	17,070	16,800	334,790	20.54
Grand Forks	213,155	194,908	2,863,812	14.70
Griggs	63,342	60,346	1,067,140	17.68
Kidder	6,122	4,438	75,555	17.02
LaMoure	90,189	83,821	1,215,481	14.50
Logan	14,590	14,359	148,049	10.31
McHenry	12,733	12,654	237,657	18.78
McIntosh	62,340	60,412	619,419	10.25
McLean	20,344	18,390	241,875	13.15
Mercer	13,895	12,850	169,399	13.18
Morton	45,794	33,201	703,600	21.19
Nelson	76,757	63,953	1,111,253	17.38
Oliver	4,657	4,635	92,795	20.02
Pembina	210,742	204,339	3,506,799	17.16
Pierce	41,012	41,008	506,377	12.35
Ramsey	45,062	40,549	929,669	22.92
Ransom	77,876	71,358	1,073,863	15.04
Richland	221,584	216,780	4,242,598	19.57
Rolette	33,775	33,026	677,238	20.50
Sargent	81,070	78,090	1,097,270	14.05
Stark	18,871	18,871	279,743	14.82
Steele	105,333	103,608	1,812,706	17.50
Stutsman	60,964	57,525	913,613	15.88
Towner	40,483	40,331	853,287	21.15
Traill	195,828	186,584	2,918,071	15.64
Walsh	198,309	197,031	3,504,342	17.78
Ward	12,160	11,280	148,246	13.14
Wells	46,018	44,092	529,104	12.00
Williams	183	156	3,187	20.43
Unorganized	5,670	5,664	79,928	14.11
Total	2,946,723	2,793,975	43,905,077	15.71

WHEAT, 1903.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	176,553	172,063	2,460,415	14.30
Benson	67,961	62,815	494,808	8.00
Bottineau	115,502	112,313	1,536,754	13.68
Burleigh	19,425	17,745	129,896	7.32
Cass	415,704	393,869	6,867,587	17.18
Cavalier	153,833	149,479	1,970,041	13.12
Dickey	75,827	66,690	990,353	14.86
Eddy	30,219	28,629	278,666	9.73
Emmons	39,469	29,728	177,404	6.00
Foster	38,998	38,728	420,644	10.86
Grand Forks	222,209	210,987	2,877,662	13.11
Griggs	86,747	85,892	1,249,936	14.56
Kidder	6,386	5,085	27,297	5.36
LaMoure	100,993	97,314	1,279,122	13.14
Logan	16,691	13,726	141,372	10.30
McHenry	21,451	20,927	284,421	13.59
McIntosh	68,121	62,358	434,840	7.00
McLean	35,045	34,114	209,740	6.15
Mercer	14,256	13,961	103,142	7.38
Morton	42,911	42,126	637,767	15.13
Nelson	97,195	94,540	1,498,533	15.85
Oliver	5,953	5,947	63,556	10.87
Pembina	242,878	242,563	4,820,663	19.87
Pierce	56,328	49,118	497,998	10.14
Ramsey	86,564	83,856	973,908	11.61
Ransom	70,185	70,185	1,127,484	16.06
Richland	227,496	223,633	3,327,905	14.90
Rolette	49,218	49,143	587,968	11.97
Sargent	82,410	79,327	1,361,106	17.15
Stark	18,252	18,252	146,016	8.00
Steele	139,769	138,182	1,648,604	11.93
Stutsman	80,599	80,320	959,035	11.94
Towner	73,657	71,632	602,514	8.41
Traill	234,195	232,061	3,899,136	16.80
Walsh	238,653	234,078	3,021,899	12.95
Ward	38,700	37,765	626,044	16.57
Wells	74,077	52,398	763,460	14.57
Williams	420	395	7,344	18.59
Unorganized	5,721	5,700	34,210	6.00
Total	3,570,571	3,427,634	48,539,250	14.16

WHEAT, 1904

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	236,418	221,328	2,946,371	13.31
Benson	135,347	131,507	2,389,547	18.17
Billings	684	665	6,179	9.29
Bottineau	180,801	180,180	2,402,617	13.33
Burleigh	25,213	25,173	335,312	13.32
Cass	433,471	428,837	5,424,979	12.65
Cavalier	191,261	190,542	2,840,696	14.91
Dickey	78,320	75,020	579,135	7.72
Eddy	45,876	45,806	714,795	15.60
Emmons	40,699	40,699	434,066	10.66
Foster	57,465	57,050	976,055	17.11
Grand Forks	280,228	266,517	2,704,617	10.15
Griggs	114,453	113,653	1,632,685	14.36
Kidder	7,945	7,945	99,444	12.52
LaMoure	115,287	113,437	1,103,543	9.73
Logan	21,363	17,920	189,817	10.58
McHenry	62,547	62,320	810,160	13.00
McIntosh	75,808	75,808	669,387	8.82
McKenzie	79	45	570	12.67
McLean	58,250	56,841	962,011	16.92
Mercer	19,043	19,029	243,583	12.77
Morton	49,318	49,280	774,218	15.71
Nelson	141,835	141,117	2,003,564	14.21
Oliver	8,328	8,328	126,790	15.22
Pembina	248,791	238,686	2,703,457	11.32
Pierce	114,007	113,554	1,747,287	15.39
Ramsey	165,223	159,435	2,931,133	18.07
Ransom	97,656	96,327	1,303,261	13.53
Richland	273,156	148,334	1,127,639	7.60
Rolette	73,345	71,890	1,188,500	15.41
Sargent	89,093	59,217	419,925	7.09
Stark	19,674	19,674	196,740	10.00
Steele	175,234	167,960	2,174,062	12.94
Stutsman	119,350	119,113	1,491,943	12.53
Towner	139,970	139,689	2,388,088	17.10
Traill	236,963	234,242	2,280,944	9.73
Walsh	285,980	282,630	3,504,862	12.40
Ward	109,455	107,598	1,454,581	13.52
Wells	131,492	131,241	1,921,000	12.13
Williams	2,635	2,635	28,217	10.70
Unorganized	6,372	6,370	62,900	9.87
Total	4,668,435	4,427,642	57,294,680	12.94

WHEAT, 1905.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	236,721	228,182	3,449,329	15.12
Benson	145,302	144,468	2,469,398	17.09
Billings	926	910	9,652	10.60
Bottineau	246,316	231,622	4,399,895	18.99
Burleigh	30,435	29,539	506,810	17.16
Cass	426,250	371,758	4,934,376	13.28
Cavalier	198,294	198,294	3,117,110	15.88
Dickey	89,807	68,930	977,822	14.19
Eddy	77,180	77,180	733,526	9.51
Emmons	42,305	42,305	580,994	13.73
Foster	87,100	87,100	1,157,040	13.28
Grand Forks	278,396	278,052	3,579,633	12.87
Griggs	120,964	118,656	1,744,583	14.70
Kidder	8,739	8,739	126,299	14.45
LaMoure	128,770	128,529	2,027,166	15.77
Logan	25,311	25,243	306,334	12.13
McHenry	123,670	120,759	2,233,358	18.49
McIntosh	69,547	69,547	790,527	11.37
McKenzie	216	216	3,356	15.54
McLean	68,224	68,193	1,159,201	16.99
Mercer	20,955	20,895	265,837	12.72
Morton	60,452	59,261	872,379	14.72
Nelson	152,082	150,505	1,988,741	13.21
Oliver	13,005	12,995	186,597	14.36
Pembina	213,716	171,249	2,700,280	15.77
Pierce	156,108	141,938	2,303,416	16.23
Ramsey	195,828	194,967	3,469,374	17.84
Ransom	107,458	104,196	1,734,292	16.64
Richland	227,533	209,132	2,936,656	14.04
Rolette	87,248	82,913	1,540,807	18.58
Sargent	80,841	78,513	1,161,012	14.77
Stark	18,950	18,900	194,310	10.28
Steele	167,322	163,398	2,234,323	13.67
Stutsman	129,112	128,937	2,018,179	15.65
Towner	136,263	135,736	2,357,088	17.36
Traill	216,033	203,513	2,727,325	13.41
Walsh	267,758	263,193	4,064,976	15.44
Ward	198,778	197,211	3,512,653	17.81
Wells	160,377	160,287	2,301,902	14.36
Williams	5,029	4,996	76,290	15.27
Unorganized	7,629	7,629	107,500	14.09
Total	5,026,950	4,808,582	73,060,346	16.21

OATS, 1902.

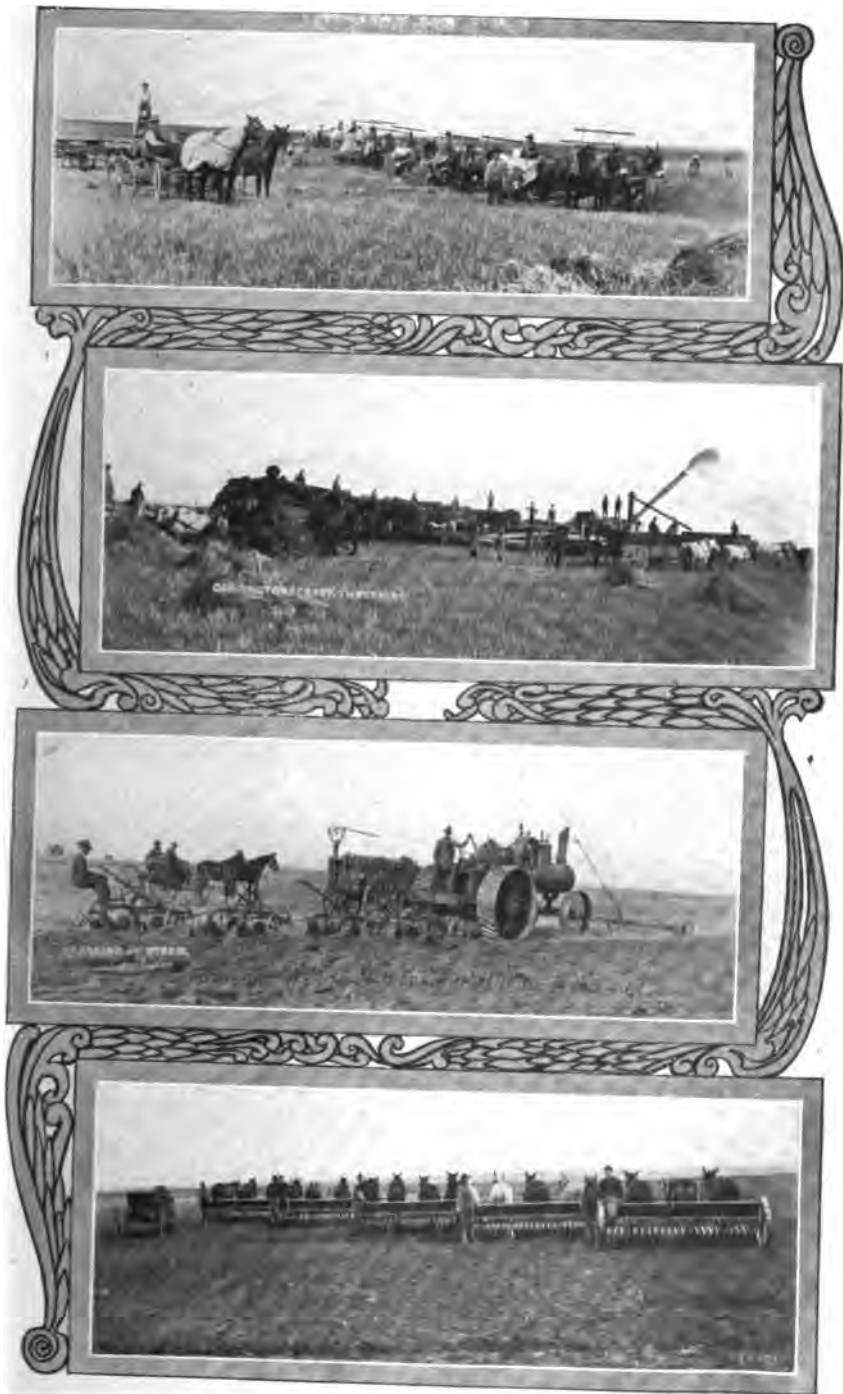
COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	38,772	38,576	1,825,627	47.32
Benson	29,230	29,213	952,532	32.60
Bottineau	27,910	27,836	1,107,779	40.00
Burleigh	4,831	4,831	187,726	38.85
Cass	63,562	62,470	2,238,878	35.84
Cavalier	41,838	40,797	1,784,314	43.74
Dickey	5,353	4,960	195,664	39.45
Eddy	12,860	12,749	464,465	36.43
Emmons	1,628	1,624	45,570	28.05
Foster	16,078	15,366	620,273	40.36
Grand Forks	55,876	52,619	1,611,634	30.63
Griggs	20,514	20,198	727,896	36.03
Kidder	1,135	786	32,037	40.76
LaMoure	11,665	10,382	368,821	35.52
Logan	524	524	12,368	23.60
McHenry	12,656	12,649	422,732	33.42
McIntosh	2,106	2,080	47,015	22.60
McLean	12,638	12,300	422,334	34.33
Mercer	4,663	4,194	114,944	37.39
Morton	12,028	11,743	449,729	38.30
Nelson	25,796	24,351	867,453	35.62
Oliver	2,913	2,913	120,451	41.34
Pembina	39,054	39,054	1,391,966	35.64
Pierce	22,662	22,641	680,086	30.03
Ramsey	25,507	25,507	975,787	38.25
Ransom	18,611	18,006	578,696	32.14
Richland	49,181	49,181	1,663,524	33.80
Rolette	12,972	12,780	464,723	36.36
Sargent	12,490	12,240	467,362	38.18
Stark	6,920	6,872	210,562	30.64
Steele	21,881	21,530	824,771	38.31
Stutsman	22,428	21,005	740,537	35.25
Towner	27,908	27,755	940,128	33.87
Traill	41,898	41,762	1,171,381	28.05
Walsh	44,615	44,580	1,766,056	39.61
Ward	16,499	16,269	488,569	30.03
Wells	31,506	31,499	776,090	24.64
Williams	1,517	1,265	42,453	33.55
Unorganized	2,506	2,459	45,808	18.63
Total	802,732	787,566	27,849,741	35.36

OATS, 1903.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	40,576	40,324	1,281,728	31.78
Benson	32,835	30,479	379,490	12.12
Bottineau	39,321	39,206	1,130,740	28.84
Burleigh	5,237	4,800	76,304	15.90
Cass	75,566	69,903	2,272,810	32.51
Cavalier	48,973	48,580	1,220,469	25.12
Dickey	10,124	8,676	366,696	42.26
Eddy	14,725	13,529	208,784	15.43
Emmons	2,418	2,062	23,071	11.19
Foster	20,376	20,149	414,479	20.57
Grand Forks	53,654	52,940	1,295,516	24.47
Griggs	23,203	22,840	618,457	27.08
Kidder	1,428	1,082	12,821	11.85
LaMoure	16,084	15,863	458,993	28.94
Logan	619	523	10,615	20.29
McHenry	22,255	19,336	517,875	26.78
McIntosh	2,597	2,395	31,442	13.12
McLean	18,038	17,648	269,060	15.25
Mercer	5,338	5,338	63,474	11.89
Morton	11,426	11,386	314,294	27.60
Nelson	29,683	29,417	849,363	28.87
Oliver	3,511	3,511	66,967	19.08
Pembina	43,990	43,938	1,283,487	29.21
Pierce	30,372	25,150	421,558	16.76
Ramsey	31,490	29,879	548,635	18.36
Ransom	21,760	21,760	671,938	30.88
Richland	57,558	56,784	1,761,381	31.01
Rolette	16,117	16,117	404,282	25.02
Sargent	15,576	15,477	603,424	38.98
Stark	7,132	7,132	87,754	12.30
Steele	26,929	26,720	649,761	24.32
Stutsman	25,413	25,181	577,648	22.94
Towner	32,032	30,097	367,200	12.20
Traill	40,668	40,458	1,154,740	28.54
Walsh	48,568	48,305	1,083,482	22.43
Ward	45,880	45,247	1,417,612	31.33
Wells	35,638	34,956	491,639	14.06
Williams	2,071	2,030	61,811	30.45
Unorganized	2,949	2,890	26,010	9.00
Total	962,130	932,108	23,495,810	25.21



Brick Plant and Roller Mill.



How they farm in North Dakota.

OATS, 1904.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	50,492	50,210	2,026,571	40.36
Benson	33,835	32,877	1,444,885	43.95
Billings	589	502	6,502	12.95
Bottineau	47,605	45,510	1,531,709	33.66
Burleigh	6,713	6,236	203,953	32.71
Cass	77,696	76,510	2,513,395	32.85
Cavalier	51,998	51,940	2,149,734	41.39
Dickey	10,917	10,774	355,532	33.00
Eddy	15,723	15,643	583,935	37.33
Emmons	3,581	3,581	111,997	31.27
Foster	20,418	20,413	805,790	39.47
Grand Forks	58,303	57,750	2,041,268	35.35
Griggs	24,841	23,910	999,950	41.82
Kidder	2,290	2,196	67,675	30.82
LaMoure	18,421	18,421	643,846	34.95
Logan	1,186	630	20,426	32.42
McHenry	27,760	27,760	832,800	30.00
McIntosh	2,665	2,665	81,877	30.72
McKenzie	660	660	7,102	10.76
McLean	23,012	22,274	851,469	38.23
Mercer	6,630	6,628	166,440	25.11
Morton	14,008	13,920	444,617	31.94
Nelson	32,780	32,760	1,230,974	37.58
Oliver	5,231	5,214	185,636	35.60
Pembina	45,463	44,206	1,435,169	32.47
Pierce	29,044	27,961	1,063,896	38.05
Ramsey	32,946	31,445	1,387,544	44.12
Ransom	30,205	29,724	1,036,299	34.86
Richland	72,269	69,012	1,773,777	25.70
Rolette	18,630	18,189	491,139	27.00
Sargent	20,878	20,680	546,640	26.43
Stark	9,273	9,132	136,980	15.00
Steele	31,005	30,994	1,252,693	40.42
Stutsman	31,418	31,393	1,174,908	37.42
Towner	33,823	33,702	1,255,251	37.25
Trail	39,537	39,198	1,324,097	33.78
Walsh	52,746	52,035	1,973,666	37.91
Ward	64,274	63,297	1,851,003	29.24
Wells	37,492	37,281	1,779,579	47.73
Williams	7,571	7,562	104,417	13.81
Unorganized	4,710	4,705	43,100	9.16
Total	1,098,638	1,079,501	37,938,241	35.14

OATS 1905.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	46,364	44,820	1,805,242	40.28
Benson	28,988	28,927	1,129,486	39.04
Billings	485	470	8,140	17.32
Bottineau	50,137	49,726	1,966,633	39.55
Burleigh	7,011	7,011	279,461	39.87
Cass	74,243	67,572	2,245,435	33.23
Cavalier	57,004	56,929	2,048,566	35.98
Dickey	13,961	13,961	472,830	33.87
Eddy	27,188	27,188	537,374	19.76
Emmons	4,342	4,342	155,112	35.73
Foster	20,715	20,715	691,432	33.38
Grand Forks	55,142	55,133	1,963,781	35.62
Griggs	25,077	24,218	948,990	39.18
Kidder	2,188	2,186	82,207	37.61
LaMoure	20,772	20,772	804,787	38.74
Logan	1,644	1,644	60,368	36.72
McHenry	36,287	33,205	1,415,158	42.62
McIntosh	2,848	2,848	87,742	30.81
McKenzie	1,316	1,316	33,698	25.60
McLean	21,386	21,208	770,942	36.35
Mercer	6,847	6,647	195,765	29.45
Morton	16,419	16,408	490,690	29.91
Nelson	32,079	31,904	1,058,396	33.17
Oliver	6,265	6,265	201,554	32.17
Pembina	39,237	33,031	1,330,435	40.28
Pierce	36,747	36,704	1,055,683	28.93
Ramsey	31,155	31,150	1,248,480	40.08
Ransom	29,828	28,437	1,310,416	46.07
Richland	77,041	71,235	2,385,294	33.48
Rolette	22,243	22,197	678,607	30.57
Sargent	20,129	19,640	726,130	36.97
Stark	10,425	10,400	157,000	15.09
Steele	29,302	28,939	1,149,427	39.72
Stutsman	30,121	30,106	1,170,918	38.89
Towner	28,947	28,649	1,041,307	36.35
Traill	36,934	34,803	1,231,373	35.38
Walsh	48,170	47,808	1,803,676	37.73
Ward	68,676	67,652	2,595,022	38.36
Wells	30,119	30,097	1,127,086	37.45
Williams	4,274	4,207	120,315	28.59
Unorganized	6,500	6,500	139,500	20.91
Total	1,108,556	1,076,970	38,724,458	35.95

BARLEY, 1902.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	24,176	21,962	609,029	27.73
Benson	12,645	12,051	276,064	22.90
Bottineau	8,489	8,483	223,896	26.39
Burleigh	351	307	9,220	30.03
Cass	38,094	36,712	754,784	20.55
Cavalier	30,419	30,377	902,511	29.71
Dickey	6,095	5,772	174,944	30.31
Eddy	3,940	3,926	98,327	25.04
Emmons	3,825	3,820	42,514	11.13
Foster	5,804	5,647	185,983	32.75
Grand Forks	28,547	26,454	660,251	24.96
Griggs	7,010	6,616	166,501	25.17
Kidder	501	431	13,753	31.91
LaMoure	9,462	8,797	237,672	27.02
Logan	2,406	2,368	53,513	22.59
McHenry	3,993	3,959	106,739	26.96
McIntosh	9,200	8,862	191,953	21.66
McLean	2,292	2,121	56,578	26.67
Mercer	752	639	15,554	24.34
Morton	572	564	17,317	30.70
Nelson	12,170	8,920	209,489	23.48
Oliver	227	227	7,089	31.23
Pembina	45,971	45,386	1,218,046	26.84
Pierce	5,941	5,855	137,297	23.43
Ramsey	17,955	16,702	451,541	27.03
Ransom	7,193	6,848	169,528	24.76
Richland	12,416	11,259	363,095	32.25
Rolette	7,703	6,942	164,177	23.65
Sargent	6,134	6,030	172,430	28.59
Stark	182	179	3,871	21.63
Steele	11,434	11,335	307,880	27.16
Stutsman	7,861	7,624	220,050	28.86
Towner	20,733	19,923	402,822	20.22
Trail	28,110	26,577	662,261	24.92
Walsh	26,038	25,920	719,470	27.76
Ward	2,273	2,124	48,825	23.00
Wells	6,891	6,623	159,972	24.15
Williams	38	38	1,492	39.27
Unorganized	126	126	1,682	13.35
Total	417,969	398,506	10,218,120	25.90

BARLEY, 1903.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	32,765	31,221	676,261	21.66
Benson	23,834	21,439	290,559	13.55
Bottineau	11,909	11,694	213,623	18.27
Burleigh	886	833	11,195	13.44
Cass	55,791	51,407	1,208,995	23.51
Cavalier	49,814	49,596	861,185	17.57
Dickey	12,670	10,820	296,603	27.41
Eddy	7,360	7,037	74,659	10.61
Emmons	7,073	6,069	70,583	11.63
Foster	13,339	12,944	186,646	14.42
Grand Forks	37,972	35,913	639,827	17.81
Griggs	12,867	12,450	236,355	18.98
Kidder	933	629	7,326	11.64
LaMoure	18,201	18,055	378,322	20.95
Logan	3,524	3,227	57,111	17.70
McHenry	6,598	6,472	135,026	20.86
McIntosh	11,705	11,357	153,690	13.53
McLean	3,951	3,699	53,854	14.56
Mercer	838	729	10,599	14.54
Morton	802	802	21,802	27.18
Nelson	17,953	15,873	358,390	22.58
Oliver	287	287	4,802	16.73
Pembina	58,796	58,751	1,409,934	24.00
Pierce	12,252	11,682	146,762	12.48
Ramsey	30,435	28,092	385,836	13.73
Ransom	16,501	16,501	379,829	22.68
Richland	25,998	24,764	576,076	23.26
Rolette	11,176	11,103	196,878	17.73
Sargent	13,350	12,569	365,237	29.06
Stark	384	384	2,307	6.01
Steele	21,006	19,052	377,092	19.27
Stutsman	13,696	13,416	240,694	17.89
Towner	32,817	30,983	294,000	9.49
Traill	31,858	30,990	701,613	22.64
Walsh	37,498	37,101	618,976	16.68
Ward	7,400	7,182	172,640	24.04
Wells	15,649	10,790	202,711	18.77
Williams	125	125	1,032	8.26
Unorganized	264	264	1,059	4.01
Total	660,277	626,302	12,020,089	19.19

BARLEY, 1904.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	43,369	40,150	1,023,502	25.49
Benson	18,965	18,377	640,685	34.86
Billings	25	25	286	11.44
Bottineau	14,379	14,371	340,548	23.70
Burleigh	2,283	2,244	61,195	27.27
Cass	56,078	53,086	1,080,211	20.35
Cavalier	64,330	63,880	1,360,168	21.29
Dickey	13,885	13,411	297,866	22.21
Eddy	5,794	5,747	155,389	27.04
Emmons	8,670	8,670	243,122	28.05
Foster	11,737	11,737	339,780	28.95
Grand Forks	39,608	39,451	817,943	20.74
Griggs	17,398	16,633	475,028	28.56
Kidder	1,270	1,270	30,253	23.81
LaMoure	20,253	20,083	422,122	21.02
Logan	5,340	5,097	136,683	26.82
McHenry	10,340	10,110	227,480	22.50
McIntosh	13,353	13,353	605,425	45.34
McKenzie	26	16	116	7.25
McLean	3,824	3,824	138,803	36.29
Mercer	952	946	22,300	23.57
Morton	1,278	1,261	31,954	25.34
Nelson	19,885	19,879	575,801	28.96
Oliver	459	459	13,670	29.78
Pembina	59,464	58,350	1,454,298	24.92
Pierce	12,654	12,589	370,673	29.44
Ramsey	30,318	28,821	940,733	32.64
Ransom	16,662	16,315	375,258	23.00
Richland	28,547	25,353	485,301	19.14
Rolette	11,747	11,667	304,267	26.08
Sargent	16,519	14,685	303,529	20.69
Stark	426	425	3,825	9.00
Steele	19,631	19,631	522,567	26.68
Stutsman	17,659	17,561	448,563	25.54
Towner	36,442	36,319	976,004	26.87
Traill	32,568	30,529	688,642	22.56
Walsh	39,756	39,641	1,018,912	25.71
Ward	9,917	9,561	202,259	21.15
Wells	20,671	20,658	562,809	27.25
Williams	563	563	8,598	15.27
Unorganized	307	300	2,100	7.00
Total	727,412	707,048	17,708,756	25.04

BARLEY, 1905.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	29,730	28,759	833,859	28.99
Benson	13,286	12,973	333,740	29.58
Billings	38	25	460	18.40
Bottineau	9,539	9,002	264,761	29.41
Burleigh	2,473	2,436	84,598	34.73
Cass	48,013	36,726	872,023	23.74
Cavalier	47,138	47,037	1,242,693	26.42
Dickey	15,600	15,600	424,147	27.19
Eddy	4,216	4,216	116,942	27.73
Emmons	8,668	8,668	275,583	31.79
Foster	10,940	10,940	293,500	26.74
Grand Forks	31,226	30,929	870,599	28.15
Griggs	12,099	11,796	349,468	29.62
Kidder	1,070	1,070	32,266	30.15
LaMoure	17,851	17,839	534,573	29.97
Logan	6,536	6,536	193,365	29.58
McHenry	7,233	7,232	231,351	31.99
McIntosh	12,237	12,237	344,685	28.17
McKenzie	57	57	1,100	19.30
McLean	1,918	1,910	58,567	30.66
Mercer	868	868	23,384	26.92
Morton	744	695	19,699	28.35
Nelson	15,027	14,971	410,563	20.75
Oliver	830	830	23,404	28.20
Pembina	49,745	43,550	1,174,769	26.97
Pierce	9,777	9,702	318,464	32.82
Ramsey	21,781	21,539	665,741	30.91
Ransom	11,327	10,825	301,282	27.83
Richland	31,157	28,564	818,729	28.66
Rolette	9,480	9,439	292,643	31.00
Sargent	19,501	15,330	417,813	27.26
Stark	397	397	3,260	8.21
Steele	16,805	16,510	481,845	29.19
Stutsman	14,338	14,318	479,197	33.47
Towner	23,159	22,715	602,350	26.52
Trall	24,563	20,645	478,317	23.17
Walsh	31,321	30,344	835,961	27.55
Ward	7,241	7,068	238,569	33.75
Wells	15,029	15,024	471,006	31.35
Williams	487	481	8,459	17.58
Unorganized	220	220	1,560	7.09
Total	583,665	550,023	15,475,295	28.13

FLAX, 1902.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	83,987	75,881	677,812	8.93
Benson	116,515	112,427	1,047,110	9.31
Bottineau	81,942	80,756	599,319	7.42
Burleigh	7,423	7,357	76,866	10.44
Cass	71,114	66,973	573,169	8.56
Cavalier	52,284	51,504	512,413	9.95
Dickey	7,361	7,361	49,569	6.73
Eddy	55,156	47,521	368,315	7.75
Emmons	5,831	5,543	42,514	7.67
Foster	65,689	56,220	500,522	8.90
Grand Forks	105,168	98,206	1,171,385	11.93
Griggs	71,220	64,191	627,997	9.78
Kidder	6,567	5,297	44,308	8.34
LaMoure	24,403	20,673	144,968	7.01
Logan	4,390	4,310	28,206	6.54
McHenry	56,647	55,114	411,637	7.47
McIntosh	6,579	5,716	26,642	4.66
McLean	71,082	53,712	435,659	8.11
Mercer	5,050	4,471	34,970	7.82
Morton	3,993	3,993	41,742	10.45
Nelson	78,906	75,142	775,070	10.31
Oliver	1,697	1,697	17,698	10.43
Pembina	32,010	31,470	385,972	12.26
Pierce	98,004	89,765	602,403	6.71
Ramsey	135,170	124,662	1,339,321	10.74
Ransom	21,638	19,184	160,098	8.34
Richland	23,471	22,184	208,936	9.41
Rolette	38,845	37,986	284,749	7.50
Sargent	12,059	10,806	99,840	9.24
Stark	806	790	4,594	5.81
Steele	60,509	56,854	546,608	9.61
Stutsman	82,096	73,217	608,220	8.31
Towner	86,969	83,900	841,906	10.03
Traill	48,870	46,907	484,344	10.33
Walsh	95,651	92,869	1,164,286	12.53
Ward	61,413	61,252	406,406	6.64
Wells	115,016	111,023	1,650,345	14.87
Williams	1,374	1,319	8,927	6.77
Unorganized	509	499	2,319	4.66
Total	1,897,414	1,768,732	17,007,195	9.59

FLAX, 1903.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	63,454	60,266	534,603	8.87
Benson	84,783	79,139	322,327	4.07
Billings	217	215	1,228	5.71
Bottineau	95,668	84,063	827,114	9.82
Burleigh	9,783	8,905	54,695	6.14
Cass	63,769	54,377	614,788	11.12
Cavalier	39,326	37,280	274,472	7.36
Dickey	10,459	9,815	119,561	12.18
Eddy	35,796	32,538	174,246	5.04
Emmons	4,951	4,417	17,287	3.91
Foster	53,903	47,398	271,297	5.72
Grand Forks	125,484	92,905	906,424	9.75
Griggs	51,697	47,287	427,634	9.04
Kidder	5,494	4,166	11,104	2.66
LaMoure	21,528	21,012	187,387	8.91
Logan	5,632	4,732	37,009	7.82
McHenry	58,132	57,528	339,944	5.91
McIntosh	5,804	5,712	25,436	4.45
McLean	70,018	69,104	325,510	4.71
Mercer	3,709	3,653	21,222	5.81
Morton	4,478	4,413	43,713	9.90
Nelson	64,008	60,403	584,656	9.68
Oliver	2,012	2,012	12,809	6.36
Pembina	23,358	23,189	249,902	10.78
Pierce	82,980	67,957	361,738	5.31
Ramsey	100,200	93,616	585,279	6.25
Ransom	19,302	18,510	204,823	11.06
Richland	26,343	22,599	248,200	10.98
Rolette	23,335	23,321	165,749	7.11
Sargent	13,371	13,175	154,427	11.72
Stark	681	681	4,769	7.00
Steele	42,528	36,401	298,907	8.21
Stutsman	60,227	56,591	358,362	6.33
Towner	67,376	62,600	348,580	5.56
Traill	42,295	40,264	511,252	12.69
Walsh	72,277	69,733	561,130	8.04
Ward	126,130	126,067	1,098,321	8.72
Wells	50,412	40,239	325,817	8.09
Williams	2,618	2,476	24,783	10.01
Unorganized	210	177	1,576	8.90
Total	1,633,748	1,488,936	11,638,081	7.83

FLAX, 1904.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	24,279	23,446	327,217	13.96
Benson	40,457	38,560	439,883	11.40
Billings	83	83	349	4.20
Bottineau	46,846	46,521	444,291	9.55
Burleigh	8,557	8,554	80,558	9.42
Cass	23,447	22,216	263,176	11.85
Cavalier	10,878	10,704	144,930	13.54
Dickey	14,061	13,932	165,945	11.91
Eddy	21,156	20,635	197,526	9.57
Emmons	4,937	4,926	50,723	10.28
Foster	25,632	24,892	270,063	10.85
Grand Forks	37,472	36,152	451,393	12.49
Griggs	25,242	23,167	349,645	15.09
Kidder	5,836	5,836	56,900	9.75
LaMoure	14,920	14,652	153,546	10.48
Logan	6,182	6,182	71,609	11.58
McHenry	36,728	36,705	440,736	12.01
McIntosh	6,384	6,384	82,049	12.85
McKenzie	10	10	50	5.00
McLean	59,690	59,641	648,646	10.88
Mercer	2,883	2,866	18,938	6.61
Morton	2,117	2,117	20,873	9.86
Nelson	30,286	30,049	392,372	13.06
Oliver	2,784	2,776	21,965	7.91
Pembina	3,893	3,732	51,614	13.83
Pierce	36,699	36,115	352,701	9.77
Ramsey	38,332	36,177	482,704	13.34
Ransom	10,576	10,212	118,469	11.60
Richland	15,028	14,977	137,080	9.15
Rolette	10,415	10,379	106,692	10.28
Sargent	11,257	11,040	136,445	12.36
Stark	527	527	3,162	6.00
Steele	13,141	13,008	165,414	12.72
Stutsman	36,651	36,606	401,469	10.97
Towner	22,798	22,794	276,737	12.14
Traill	19,006	18,036	254,684	14.12
Walsh	23,138	22,669	308,787	13.63
Ward	112,914	110,009	980,984	8.92
Wells	36,827	34,942	392,423	11.23
Williams	7,766	7,643	33,419	4.37
Unorganized	170	167	1,002	6.00
Total	850,005	830,039	9,297,169	11.20

FLAX, 1905.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	44,966	43,553	574,502	13.19
Benson	33,720	33,193	403,458	12.16
Billings	293	285	2,427	8.52
Bottineau	63,013	60,275	823,980	13.67
Burleigh	10,786	10,786	109,332	10.37
Cass	45,298	39,759	464,804	11.69
Cavalier	13,264	13,228	155,810	11.77
Dickey	24,199	23,957	298,829	12.48
Eddy	20,028	20,028	233,783	12.48
Emmons	8,724	8,718	116,310	13.34
Foster	27,915	26,660	292,340	10.97
Grand Forks	70,865	70,549	855,836	12.13
Griggs	38,421	38,091	552,206	14.49
Kidder	4,778	4,778	51,313	10.74
LaMoure	32,276	32,252	427,974	13.27
Logan	14,557	14,458	179,108	12.39
McHenry	56,503	54,782	721,392	13.17
McIntosh	9,415	9,415	128,544	13.65
McKenzie	234	216	2,375	10.99
McLean	49,354	49,296	530,597	10.76
Mercer	3,063	3,063	27,682	9.04
Morton	4,951	4,951	54,252	10.96
Nelson	46,210	46,057	597,926	12.96
Oliver	4,685	4,685	45,189	9.65
Pembina	8,980	8,578	110,273	12.85
Pierce	33,345	33,345	418,002	12.53
Ramsey	46,093	45,806	613,739	13.39
Ransom	16,886	16,551	217,398	13.14
Richland	38,182	35,788	372,148	10.39
Rolette	12,840	12,737	195,572	15.36
Sargent	23,962	23,560	309,296	13.13
Stark	896	890	8,200	9.21
Steele	31,611	30,783	391,422	12.71
Stutsman	48,454	48,294	573,008	11.86
Towner	38,529	38,033	474,525	12.21
Trail	34,155	31,814	559,095	17.67
Walsh	38,988	38,606	486,606	12.60
Ward	136,819	134,492	1,701,729	12.65
Wells	32,044	31,363	287,780	9.02
Williams	7,800	7,770	69,178	8.90
Unorganized	390	390	3,100	7.95
Total	1,177,492	1,151,835	14,441,040	12.54

RYE, 1902.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	411	236	4,499	19.06
Benson	385	385	11,386	29.57
Bottineau	204	203	3,670	18.00
Burleigh	1,226	1,145	19,842	17.33
Cass	557	524	17,309	33.03
Cavalier	148	148	5,016	33.85
Dickey	1,972	1,715	31,482	18.35
Eddy	1,002	996	33,930	34.06
Emmons	332	332	5,005	15.07
Foster	741	741	15,099	20.37
Grand Forks	220	191	5,670	29.68
Griggs	1,814	1,761	33,087	18.78
Kidder	1,071	916	18,574	20.27
LaMoure	1,364	1,323	19,871	15.01
Logan	800	800	8,699	10.87
McHenry	210	210	4,464	21.21
McIntosh	2,223	2,152	22,718	10.56
McLean	121	108	2,342	21.68
Mercer	43	43	695	16.16
Morton	129	126	1,565	12.42
Nelson	372	348	10,507	30.19
Oliver	25	25	584	23.36
Pembina	374	352	5,030	14.29
Pierce	29	29	642	22.14
Ramsey	524	501	12,913	25.77
Ransom	1,855	1,560	29,470	18.89
Richland	327	327	6,617	20.23
Rolette	569	569	16,555	29.09
Sargent	1,391	1,391	27,708	19.92
Stark	604	604	7,075	11.71
Steele	95	95	2,120	22.32
Stutsman	567	550	10,467	19.03
Towner	963	768	27,838	36.24
Trail	41	41	480	11.70
Walsh	95	95	1,307	13.75
Ward	101	88	2,392	27.18
Wells	156	152	4,947	32.54
Unorganized	47	47	594	12.59
Total	23,108	21,597	432,169	20.01

RYE, 1903.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	162	162	3,075	19.00
Benson	784	750	7,415	9.88
Bottineau	295	295	3,302	11.19
Burleigh	723	700	4,441	6.34
Cass	1,193	998	19,474	19.51
Cavalier	463	463	10,210	22.05
Dickey	1,610	1,275	27,833	21.83
Eddy	464	464	6,005	12.94
Emmons	380	368	2,561	6.96
Foster	752	742	10,430	14.05
Grand Forks	71	71	682	9.60
Griggs	1,940	1,890	29,040	15.37
Kidder	1,559	1,441	10,338	7.17
LaMoure	1,625	1,584	29,629	18.70
Logan	900	825	9,741	11.80
McHenry	240	240	3,374	14.06
McIntosh	2,088	1,993	29,880	15.00
McLean	125	110	1,349	12.26
Mercer	22	22	235	10.70
Morton	135	135	1,562	11.56
Nelson	263	203	6,779	33.40
Oliver	9	9	85	9.44
Pembina	305	305	3,878	12.71
Pierce	14	14	182	13.00
Ramsey	732	588	14,526	24.70
Ransom	1,675	1,675	28,011	16.72
Richland	225	225	4,671	20.76
Rolette	411	375	6,416	17.11
Sargent	985	981	20,753	21.15
Stark	750	750	6,223	8.30
Steele	191	191	1,645	8.61
Stutsman	1,303	1,293	29,686	23.95
Towner	837	837	11,300	13.50
Traill	94	94	1,000	10.63
Walsh	40	40	321	8.00
Ward	258	258	4,371	16.55
Wells	226	197	3,669	18.62
Unorganized	120	120	600	5.00
Total	23,969	22,683	354,692	15.64

RYE, 1904.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	513	491	11,315	23.04
Benson	92	92	2,510	27.28
Billings	10	10		
Bottineau	533	515	12,717	24.70
Burleigh	1,163	1,143	15,272	13.36
Cass	635	549	5,942	10.82
Cavalier	478	478	16,638	34.81
Dickey	891	891	13,520	15.17
Eddy	961	961	18,929	19.68
Emmons	594	594	11,128	18.73
Foster	1,419	1,401	25,093	17.81
Grand Forks	120	120	1,680	14.00
Griggs	2,020	1,800	38,827	21.57
Kidder	2,560	2,560	45,226	13.76
LaMoure	1,974	1,974	35,072	17.77
Logan	1,070	1,060	14,652	13.83
McHenry	708	708	10,620	15.00
McIntosh	3,071	3,071	46,410	15.11
McKenzie	13	3	25	8.33
McLean	403	403	5,448	13.51
Mercer	41	41	610	14.88
Morton	180	180	4,018	22.32
Nelson	488	488	13,317	27.27
Oliver	20	20	350	17.50
Pembina	491	484	4,571	9.44
Pierce	92	82	3,276	39.95
Ransom	926	792	15,602	19.70
Richland	473	454	6,458	14.22
Rolette	331	281	5,925	21.08
Sargent	960	950	23,332	24.56
Stark	890	875	4,752	5.43
Steele	96	96	1,600	16.66
Stutsman	2,497	2,476	63,661	25.71
Traill	177	177	2,470	13.95
Walsh	28	28	451	16.11
Ward	536	533	12,151	22.79
Wells	2,262	2,262	33,239	14.69
Williams	12	10	124	12.40
Unorganized	79	77	390	5.07
Total	39,807	29,130	527,321	18.10

RYE, 1905.

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	610	610	13,303	21.81
Benson	78	78	1,930	24.75
Bottineau	507	407	14,798	36.36
Burleigh	1,608	1,608	26,997	16.78
Cass	507	468	7,945	16.79
Cavalier	245	245	7,761	31.68
Dickey	1,505	1,505	24,367	16.19
Eddy	3,290	3,290	74,245	22.57
Emmons	605	605	9,309	15.39
Foster	2,784	2,784	45,065	16.19
Grand Forks	12	12	169	14.08
Griggs	3,941	3,785	68,854	18.19
Kidder	3,765	3,765	55,941	14.86
LaMoure	2,204	2,199	53,093	24.15
Logan	1,068	1,068	15,350	14.37
McHenry	1,948	1,783	36,723	20.59
McIntosh	1,668	1,668	20,197	12.11
McLean	625	625	13,480	21.57
Mercer	16	16	400	25.00
Morton	67	33	510	15.46
Nelson	374	374	8,865	23.70
Oliver	18	18	385	21.40
Pembina	632	432	5,962	13.80
Pierce	84	84	2,005	23.88
Ramsey	65	65	1,977	30.43
Ransom	933	930	19,055	20.49
Richland	999	977	15,823	16.09
Rolette	335	335	7,935	23.68
Sargent	1,855	1,855	22,006	11.87
Stark	723	723	5,700	7.88
Steele	186	186	4,541	24.42
Stutsman	1,188	1,132	32,267	28.50
Towner	30	30	350	11.66
Traill	179	173	3,814	22.05
Walsh	46	46	700	15.22
Ward	866	866	21,414	24.73
Wells	3,628	3,628	65,600	18.08
Williams	16	16	238	14.88
Unorganized	87	87	609	7.00
Total	39,297	38,511	709,683	18.43

CORN, 1902.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	1,369	4,575	3.34
Benson	343	6,189	18.04
Billings	28	560	20.00
Bottineau	93	50	.53
Burleigh	3,009	46,111	15.32
Cass	31,128	160,774	5.16
Cavalier	6	30	5.00
Dickey	9,289	64,964	6.99
Eddy	194	75	.38
Emmons	4,723	51,949	10.99
Foster	1,309	13,090	10.00
Grand Forks	2,040	2,510	1.23
Griggs	317	2,853	9.00
Kidder	491	3,743	7.62
LaMoure	2,096	4,791	2.28
Logan	369	1,114	3.01
McHenry	93	1,322	14.21
McIntosh	2,022	2,385	1.17
McLean	1,123	17,273	15.38
Mercer	712	10,744	15.08
Morton	3,334	42,843	12.85
Nelson	238	150	.63
Oliver	1,006	15,455	15.36
Pembina	352	35	.10
Pierce	13	285	21.92
Ramsey	192	2,040	10.62
Ransom	3,186	25,808	8.10
Richland	14,062	143,488	10.23
Rolette	42	1,410	10.50
Sargent	6,078	15,906	2.61
Stark	1,171	11,001	9.39
Steele	1,079	3,600	3.03
Stutsman	818	4,060	4.00
Towner	102	1,020	10.00
Traill	7,698	5,245	4.96
Walsh	491	615	1.25
Ward	328	4,566	13.92
Wells	967	3,948	4.08
Williams	247	6,221	25.18
Unorganized	386	4,594	11.90
Total	102,544	687,842	6.71

CORN, 1903.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	831	5,035	6.06
Benson	115	822	7.15
Billings	149	2,156	14.47
Bottineau	204	1,966	9.64
Burleigh	2,326	29,269	12.58
Cass	33,202	152,617	4.60
Cavalier	20	240	12.00
Dickey	5,140	100,395	19.53
Eddy	242	2,000	8.26
Emmons	4,129	84,299	20.44
Foster	739	522	.70
Grand Forks	2,116	3,571	1.69
Griggs	410	3,848	9.39
Kidder	444	3,763	8.48
LaMoure	994	8,030	8.08
Logan	351	2,272	6.47
McHenry	169	1,052	6.23
McIntosh	906	19,956	22.02
McLean	759	11,369	11.03
Mercer	554	7,040	12.70
Morton	2,562	38,700	15.11
Nelson	21	135	6.43
Oliver	540	7,699	14.23
Pembina	484	4,840	10.00
Pierce	7	10	1.43
Ramsey	79	845	10.70
Ransom	1,811	28,775	16.00
Richland	15,216	200,240	13.60
Rolette	13	125	9.61
Sargent	4,718	50,862	10.78
Stark	954	19,960	20.90
Steele	1,358	1,571	1.13
Stutsman	733	4,200	5.73
Towner	58	150	2.60
Trail	9,575	10,825	1.13
Walsh	446	4,460	10.00
Ward	90	1,717	19.08
Wells	278	1,023	3.63
Williams	141	3,575	25.37
Unorganized	1,045	10,450	10.00
Total	93,929	830,374	8.84



Stacking Flax.



Breaking.



Farm Scene.

6.3



Cutting Grain.



Corn on the Slope.

1

2

3

4

CORN, 1904.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	1,096	775	.71
Benson	236		
Billings	393	1,762	4.49
Bottineau	58	100	1.71
Burleigh	3,260	49,872	15.30
Cass	35,073	101,952	2.91
Cavalier	37	1,600	43.25
Dickey	3,981	65,656	16.50
Eddy	655	100	.15
Emmons	5,887	123,676	21.01
Foster	342		
Grand Forks	2,429	2,085	.86
Griggs	310	100	.32
Kidder	408	3,139	7.40
LaMoure	738	2,712	3.67
Logan	322	2,761	8.32
McHenry	372	955	2.57
McIntosh	1,027	13,601	13.24
McKenzie	143	585	4.09
McLean	563	6,570	11.67
Mercer	539	4,884	9.04
Morton	4,514	46,819	10.37
Nelson	94	70	.74
Oliver	999	11,588	11.60
Pembina	570	1,425	2.50
Pierce	32	430	15.00
Ramsey	421	10,395	24.69
Ransom	2,686	29,138	10.85
Richland	16,695	192,248	11.51
Sargent	4,021	69,132	17.18
Stark	1,569	47,070	30.00
Steele	1,600		
Stutsman	488	1,130	2.32
Towner	53	110	2.08
Traill	9,645	1,530	.16
Walsh	874	1,700	.19
Ward	85	1,699	19.98
Wells	449	755	1.68
Williams	219	2,239	10.23
Unorganized	3,276	27,500	8.39
Total	106,169	827,903	7.79

CORN, 1905.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	1,670	10,750	6.45
Benson	734	40	
Billings	108	720	6.50
Bottineau	140	1,209	8.65
Burleigh	2,514	54,606	21.72
Cass	31,993	119,207	3.73
Cavalier	31		
Dickey	5,441	106,412	19.56
Eddy	270	1,950	7.22
Emmons	4,122	118,950	28.86
Foster	389	2,240	5.76
Grand Forks	1,835	1,696	.93
Griggs	364	4,397	12.08
Kidder	296	4,547	15.36
LaMoure	926	12,571	13.58
Logan	607	4,719	7.77
McHenry	664	6,383	9.61
McIntosh	596	13,460	22.58
McKenzie	544	4,113	7.76
McLean	155	2,376	15.33
Mercer	526	9,721	18.48
Morton	4,972	72,570	14.59
Nelson	199	630	31.66
Oliver	864	16,808	19.45
Pembina	567	120	.21
Pierce	30	222	7.04
Ramsey	196	3,340	17.04
Ransom	2,822	67,635	23.98
Richland	14,913	363,289	24.37
Rolette	10	200	20.00
Sargent	4,385	123,705	25.93
Stark	1,875	67,800	36.16
Steele	1,711	3,939	2.30
Stutsman	178	1,575	8.85
Towner	9		
Traill	8,041	5,520	.68
Walsh	611	15,275	25.00
Ward	158	5,033	31.85
Wells	105	1,008	9.60
Williams	19	265	13.95
Unorganized	3,692	37,800	10.24
Total	99,282	1,266,801	12.68

POTATOES, 1902.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	1,077	79,691	73.99
Benson	309	38,169	23.32
Billings	22	550	25.00
Bottineau	1,165	29,385	25.22
Burleigh	415	40,959	98.69
Cass	1,955	175,636	89.83
Cavalier	693	66,579	96.06
Dickey	394	41,901	70.54
Eddy	147	23,749	16.14
Emmons	316	22,500	71.80
Foster	281	29,872	106.03
Grand Forks	901	115,448	128.13
Griggs	298	37,398	125.49
Kidder	87	6,193	71.18
LaMoure	502	42,573	84.80
Logan	132	8,214	62.22
McHenry	409	43,855	107.22
McIntosh	313	15,792	50.45
McLean	458	46,788	102.15
Mercer	163	20,163	123.69
Morton	919	12,574	100.73
Nelson	394	52,510	133.26
Oliver	166	14,801	89.16
Pembina	588	90,246	153.47
Pierce	247	27,216	110.18
Ramsey	475	55,534	116.91
Ransom	441	36,745	83.32
Richland	982	83,152	84.67
Rolette	303	31,469	103.85
Sargent	568	45,520	80.14
Stark	387	21,518	55.60
Steele	317	42,651	134.54
Stutsman	667	75,762	113.58
Towner	331	33,374	100.82
Traill	590	77,507	131.36
Walsh	807	118,351	146.65
Ward	677	54,403	80.35
Wells	553	65,547	120.33
Williams	156	14,025	89.89
Unorganized	118	8,730	73.98
Total	19,723	1,847,050	93.65

POTATOES, 1903.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	786	63,632	80.95
Benson	578	28,604	49.48
Billings	60	4,070	58.98
Bottineau	413	50,371	121.95
Burleigh	476	32,807	68.92
Cass	2,159	168,168	77.89
Cavalier	554	64,078	115.66
Dickey	621	57,144	92.03
Eddy	194	23,025	118.69
Emmons	450	36,800	81.78
Foster	509	22,419	44.19
Grand Forks	872	103,246	118.40
Griggs	272	35,118	125.43
Kidder	97	7,158	73.80
LaMoure	521	44,658	85.71
Logan	151	14,440	95.63
McHenry	433	39,226	90.59
McIntosh	343	40,166	117.10
McLean	621	44,529	71.70
Mercer	122	9,717	79.65
Morton	932	53,412	57.31
Nelson	399	49,731	124.63
Oliver	141	9,262	65.68
Pembina	605	76,246	126.02
Pierce	282	27,867	98.82
Ramsey	538	51,562	95.84
Ransom	385	38,967	101.21
Richland	1,217	95,857	78.35
Rolette	431	50,735	117.71
Sargent	595	51,105	86.00
Stark	298	12,220	41.34
Steele	308	35,596	115.57
Stutsman	545	51,664	94.80
Towner	359	62,686	174.61
Traill	619	65,862	106.40
Walsh	892	83,283	93.36
Ward	897	103,327	115.19
Wells	378	35,891	95.00
Williams	75	18,872	251.62
Unorganized	291	1,230	86.00
Total	20,428	1,864,323	91.71

POTATOES, 1904.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	764	26,690	34.94
Benson	405	59,244	146.28
Billings	193	6,154	31.88
Bottineau	649	86,681	133.56
Burleigh	483	40,300	83.43
Cass	13,993	169,466	12.11
Cavalier	683	105,389	154.30
Dickey	553	47,309	85.73
Eddy	249	30,044	120.66
Emmons	516	55,835	108.21
Foster	281	31,516	112.11
Grand Forks	1,051	118,360	112.60
Griggs	266	33,099	124.43
Kidder	136	11,855	87.17
LaMoure	495	47,695	94.54
Logan	415	21,010	50.63
McHenry	635	57,150	90.00
McIntosh	312	43,953	140.08
McKenzie	46	3,586	77.96
McLean	779	75,138	96.45
Mercer	123	12,315	100.11
Morton	938	58,187	62.05
Nelson	414	55,862	134.93
Oliver	200	17,047	85.24
Pembina	538	75,155	139.69
Pierce	317	48,117	151.78
Ramsey	580	92,980	160.30
Ransom	526	54,969	104.51
Richland	1,157	65,408	55.57
Rolette	386	44,685	115.77
Sargent	637	51,440	80.75
Stark	270	9,180	34.00
Steele	347	41,918	120.80
Stutsman	699	73,115	104.60
Towner	499	75,997	152.30
Traill	537	55,758	103.83
Walsh	883	130,969	148.50
Ward	1,271	164,256	129.16
Wells	519	57,337	110.48
Williams	400	34,683	86.71
Unorganized	372	14,880	40.00
Total,	34,517	2,304,732	66.77

POTATOES, 1905.

COUNTY	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Barnes	738	109,808	148.79
Benson	309	47,082	152.37
Billings	52	2,755	52.98
Bottineau	561	89,674	159.85
Burleigh	483	53,838	111.46
Cass	2,482	125,684	50.64
Cavalier	580	92,330	159.42
Dickey	481	50,623	105.24
Eddy	312	47,164	151.16
Emmons	424	54,284	128.03
Foster	347	35,658	102.76
Grand Forks	1,174	118,358	100.82
Griggs	302	48,602	160.93
Kidder	150	25,165	167.77
LaMoure	509	68,157	133.91
Logan	222	35,858	161.49
McHenry	1,718	72,143	41.99
McIntosh	279	32,272	115.67
McKenzie	54	5,515	102.13
McLean	769	62,122	80.78
Mercer	132	16,390	124.17
Morton	843	89,789	106.51
Nelson	466	71,501	153.43
Oliver	210	24,511	116.72
Pembina	530	73,457	138.60
Pierce	325	43,550	137.08
Ramsey	567	88,673	156.38
Ransom	447	57,662	129.00
Richland	1,326	117,555	88.65
Rolette	330	56,016	169.75
Sargent	973	65,825	67.96
Stark	340	15,200	44.71
Steele	432	63,379	146.71
Stutsman	743	108,383	145.87
Towner	443	58,636	132.36
Traill	818	29,814	36.45
Walsh	786	87,351	111.13
Ward	2,219	219,371	98.85
Wells	458	61,251	133.73
Williams	133	10,912	82.05
Unorganized	400	12,000	30.00
Total	24,867	2,548,318	102.44

ROOTS, ALL KINDS.

COUNTY	Acres Planted 1902	Bushels Harvested 1902	Acres Planted 1903	Bushels Harvested 1903
Barnes	10	789	1	50
Benson	19	1,124	42	1,602
Billings .....	.....	.....	3	325
Bottineau	3	950	9	2,915
Burleigh	4	514	4	208
Cass	8	1,605	7	2,470
Cavalier	30	9,840	34	16,977
Dickey	61	9,628	3	355
Eddy	1	85	1	100
Emmons	3	160	2	115
Grand Forks	12	3,058	12	3,297
Griggs	1	235	1	285
Kidder .....	.....	10	2	140
LaMoure	9	1,050	103	1,043
Logan .....	.....	.....	1	20
McHenry	62	2,955	63	4,118
McIntosh	2	188	1	50
McLean	33	2,908	21	1,884
Mercer .....	.....	.....	8	422
Morton	1	112	1	120
Nelson	23	465	1	255
Oliver	6	760	3	302
Pembina	11	6,220	17	8,100
Pierce	6	350	2	220
Ramsey	17	1,899	18	2,290
Ransom	17	550	1	140
Richland	5	555	5	229
Rolette	7	1,740	26	3,340
Sargent	1	195	5	710
Stark	11	476	5	275
Steele	4	800	7	530
Stutsman	5	800	140	4,660
Towner	16	1,145	8	996
Traill	5	2,020	9	3,208
Walsh	37	5,321	47	4,706
Ward	29	2,219	43	8,725
Wells	13	1,703	4	370
Williams	14	2,100	13	2,653
Unorganized	4	640	18	430
Total	490	65,169	690	78,635

ROOTS OF ALL KINDS.

COUNTY	Acres Planted 1904	Bushels Harvested 1904	Acres Planted 1905	Bushels Harvested 1905
Barnes	2	640	10	1,290
Benson	12	3,341	8	1,692
Billings	15	518	4½	135
Bottineau	55	24,068	4¾	1,320
Burleigh	7	660	4	236
Cass	22	13,570	13	9,142
Cavalier	40	28,101	66¾	26,492
Dickey .....	.....	.....	1	400
Eddy	1	365	1½	1,085
Emmons	7	1,125	1	60
Grand Forks	16	6,655	18	4,400
Griggs	1	825	½	450
Kidder	13	159	7	760
LaMoure	9	1,611	8½	966
McHenry	94	5,563	109	6,560
McIntosh	1	200		
McKenzie	7	156	1¾	360
McLean	118	9,011	24	2,365
Mercer	3	205	21	938
Morton	10	139	1	75
Nelson	23¾	200	2	495
Oliver	26	2,643	19	1,558
Pembina	33	8,535	21	5,720
Pierce	24	4,045	1	125
Ramsey	13	2,554	13¾	2,635
Ransom	6	407	12¾	395
Richland	9	970	4	1,875
Rolette	16	5,268	12¾	3,023
Sargent	7	760	8	1,065
Stark	9	197	12½	530
Steele	4	725	3	1,060
Stutsman	18	3,760	1	160
Towner	16	3,556	5½	1,690
Traill	7	2,323	9	2,754
Walsh	31	6,675	21	8,773
Ward	87	8,591	87¾	8,753
Wells	62	130	2	32
Williams	19	742	7½	645
Unorganized	29	57	25	132
Total	851¾	149,050	573¾	100,146

MILLET AND HUNGARIAN.

COUNTY	Acres Sown 1902	Tons Cut 1902	Acres Sown 1903	Tons Cut 1903
Barnes	7,528	8,223	5,869	7,263
Benson	2,811	2,510	2,278	1,626
Billings	200	200	192	249
Bottineau	208	247	123	528
Burleigh	768	1,326	151	128
Cass	10,134	11,345	8,242	9,943
Cavalier	74	989	41	51
Dickey	10,781	9,859	7,837	18,655
Eddy	2,252	2,088	3,244	3,633
Emmons	1,172	2,171	905	1,144
Foster	3,256	2,868	3,553	2,544
Grand Forks	8,467	11,600	10,689	10,598
Griggs	3,792	4,733	3,922	5,326
Kidder	791	758	454	538
LaMoure	8,625	6,300	5,004	7,422
Logan	198	48	58	51
McHenry	337	432	169	188
McIntosh	995	2,071	498	818
McLean	1,754	3,053	1,124	1,329
Mercer	458	1,451	370	477
Morton	3,533	5,372	2,807	4,233
Nelson	1,142	1,772	999	1,277
Oliver	509	663	422	412
Pembina	2,748	3,774	2,153	2,676
Pierce	1,043	638	500	887
Ramsey	1,073	1,560	1,015	906
Ransom	4,990	6,542	3,841	8,023
Richland	8,183	8,990	6,446	8,678
Rolette	46	31	603	524
Sargent	8,590	6,406	7,347	12,201
Stark	844	1,090	573	1,260
Steele	6,150	7,632	6,193	6,789
Stutsman	3,950	3,201	2,481	2,310
Towner	417	440	357	225
Traill	11,479	14,889	10,986	10,861
Walsh	11,567	15,363	11,569	10,273
Ward	863	1,256	788	1,040
Wells	9,953	10,778	8,733	8,455
Williams	145	225	108	183
Unorganized	345	259	406	320
Total	142,171	163,153	123,050	154,044

MILLET AND HUNGARIAN.

COUNTY	Acres Sown 1904	Tons Cut 1904	Acres Sown 1905	Tons Cut 1905
Barnes	6,408	12,291	4,653	8,597
Benson	3,152	5,866	1,950	5,749
Billings	170	124		
Bottineau	429	624	260	438
Burleigh	188	142	104	230
Cass	9,484	11,622	5,693	7,499
Cavalier	167	209	40	80
Dickey	4,042	6,745	1,895	3,126
Eddy	4,036	6,028	2,087	3,790
Emmons	894	1,611	153	329
Foster	2,436	3,305	2,126	3,360
Grand Forks	9,269	10,838	7,892	10,246
Griggs	3,617	4,653	2,731	4,476
Kidder	439	395	173	367
LaMoure	3,624	5,892	2,236	3,885
Logan	18	37	10	15
McHenry	476	525	340	621
McIntosh	222	438	15	25
McKenzie	56	23	4	16
McLean	1,112	1,649	31	68
Mercer	415	401	51	81
Morton	3,409	5,811	1,365	2,005
Nelson	1,049	1,569	793	1,306
Oliver	650	889	296	600
Pembina	2,303	2,853	1,141	1,485
Pierce	1,423	1,662	730	1,085
Ramsey	1,895	3,159	1,482	3,142
Ransom	3,577	13,543	1,854	4,051
Richland	6,636	7,480	3,543	6,154
Rolette	36	37		
Sargent	5,327	9,250	2,229	4,023
Stark	624	1,561	537	1,470
Steele	6,891	8,136	5,376	7,796
Stutsman	1,613	1,890	395	637
Towner	587	1,086	493	894
Trail	11,031	11,877	7,583	8,136
Walsh	13,964	16,693	10,178	12,534
Ward	494	924	489	981
Wells	9,837	11,606	5,144	8,166
Williams	211	237	26	34
Unorganized	174	167	190	215
Total	122,385	173,348	76,288	117,712

BROME GRASS.

COUNTY	Acres Sown 1902	Tons Cut 1902	Acres Sown 1903	Tons Cut 1903
Barnes	213	300	253	253
Benson	135	209	83	41
Bottineau	87	55	93	49
Burleigh .....	.....	.....	30	10
Cass	306	253	246	219
Cavalier	176	196	192	176
Dickey	24	13	21	22
Eddy	38	28	178	162
Emmons	10	18	6	6
Foster	179	97	203	198
Grand Forks	361	80	221	152
Griggs	136	93	258	142
Kidder	57	70	118	120
LaMoure	115	68	313	120
Logan	50	120	102	119
McHenry	52	16	6	12
McIntosh	1	2	4	6
McLean	30	32	45	47
Mercer .....	.....	.....	1	2
Morton	98	144	58	70
Nelson	62	52	659	737
Oliver	9	32	5	8
Pembina	185	185	221	253
Pierce	5	12	12	12
Ramsey	167	235	50	25
Ransom	219	172	415	433
Richland	30	.....	36	7
Rolette	97	38	49	35
Sargent	86	46	175	255
Stark	21	16	81	76
Steele	56	69	139	56
Stutsman	47	40	229	151
Towner	172	246	2	2
Trails	541	612	427	247
Walsh	570	659	770	605
Ward	49	59	190	298
Wells	140	133	1,816	19
Unorganized	299	263	25	24
Total	4,813	4,663	7,732	5,171

BROME GRASS.

COUNTY	Acres Sown 1904	Tons Cut 1904	Acres Sown 1905	Tons Cut 1905
Barnes	1,217	1,144	1,263	1,297
Benson	338	418	556	593
Billings	2	4		
Bottineau	328	193	273	282
Burleigh	55	46	133	86
Cass	1,131	703	1,295	1,475
Cavalier	246	395	553	787
Dickey	14	17	320	279
Eddy	473	547	1,098	1,336
Emmons	40	66	110	205
Foster	423	83	510	340
Grand Forks	564	615	1,016	1,311
Griggs	518	369	419	483
Kidder	174	289	288	365
LaMoure	871	544	1,401	1,004
Logan	40	13	10	12
McHenry	170	325	233	379
McKenzie .....	.....	.....	4	3
McLean	90	116	46	93
Mercer	5	5	18	33
Morton	129	168	124	126
Nelson	305	252	469	496
Oliver	12	27	25	29
Pembina	442	528	666	956
Pierce	293	244	364	894
Ramsey	771	702	697	1,021
Ransom	588	416	878	746
Richland	270	241	261	414
Rolette	219	230	270	209
Sargent	352	936	262	344
Stark	110	95	225	176
Steele	457	346	448	619
Stutsman	548	589	661	1,097
Towner	459	202	1,106	346
Traill	1,286	1,229	1,419	1,807
Walsh	1,492	1,724	1,604	1,906
Ward	187	192	646	751
Wells	1,058	805	602	675
Williams	90	110	1	1
Unorganized	36	27	32	73
Total	15,803	14,945	20,307	23,049

OTHER TAME GRASSES.

COUNTY	Acres Sown 1902	Tons Cut 1902	Acres Sown 1903	Tons Cut 1903
Barnes	332	1,335	1,117	548
Benson	1,346	3,929	31	36
Bottineau	465	265	530	532
Burleigh	18	85	21	26
Cass	3,514	5,025	4,195	4,460
Cavalier	1,781	1,478	182	254
Dickey	191	66	30	90
Eddy	40	50	928	
Emmons			170	371
Foster			15	20
Grand Forks	3,258	5,433	3,960	2,672
Griggs	455	361	138	533
Kidder	270	270	230	300
LaMoure	1,221	917	84	146
McHenry			98	464
McIntosh	119	145		
McLean	8	10	4	5
Mercer	263	478	263	478
Morton	17	42	417	492
Nelson	151	232	48	117
Oliver	31	130	16	36
Pembina	2,034	3,826	1,570	2,230
Pierce	20	32	10	20
Ramsey	101	996	195	535
Ransom	498	816	451	433
Richland	1,460	5,065	1,903	3,469
Rolette	696	409	3	10
Sargent	251	215	230	248
Stark	248	556	204	397
Steele	606	814	315	365
Stutsman	40	50	29	36
Towner	22	30	6	
Traill	4,994	5,798	4,181	3,807
Walsh	856	1,123	1,643	1,162
Ward	25	27	361	601
Wells	40	35	90	195
Williams	10	20	176	352
Unorganized	124	516		
Total	25,505	40,579	23,844	25,440

OTHER TAME GRASSES.

COUNTY	Acres Sown 1904	Tons Cut 1904	Acres Sown 1905	Tons Cut 1905
Barnes	367	1,124	494	406
Benson	90	1,134	199	1,057
Billings	40	38		
Bottineau	286	681	671	884
Burleigh	45	128	97	132
Cass	7,395	8,874	10,170	11,362
Cavalier	561	3,017	884	497
Dickey			109	118
Eddy	2	2	158	163
Emmons	92	152	12	23
Foster	196		9	5
Grand Forks	5,045	5,859	7,019	8,344
Griggs	142	1,989	157	683
Kidder	1	1	15	75
LaMoure	39	60	229	2,149
McHenry	79	225	176	333
McIntosh	175	520	55	130
McKenzie	17	25	1	4
McLean	16	191		
Mercer	2	2	4	12
Morton	105	187	482	1,172
Nelson	377	540	360	483
Oliver	1	1	76	101
Pembina	4,615	6,304	4,678	8,271
Pierce	78	177	134	1,152
Ramsey	111	201	259	793
Ransom	594	802	863	927
Richland	4,787	10,024	5,219	7,239
Rolette	77	95	86	93
Sargent	1,785	2,260	1,155	1,722
Stark	325	489	276	670
Steele	614	715	978	1,148
Stutsman	27	32	68	155
Towner	73	100	66	169
Trail	8,673	10,808	8,805	7,904
Walsh	2,136	2,743	2,793	3,684
Ward	313	2,285	1,201	1,940
Wells	228	177	314	571
Williams	306	327		
Total	39,815	53,289	48,273	64,570

PRAIRIE HAY (TONS CUT).

COUNTY	1902	1903	1904	1905
Barnes	53,632	39,351	55,584	45,852
Benson	34,810	31,929	34,732	27,776
Billings	10,000	13,596	21,889	3,091
Bottineau	34,097	30,673	50,394	73,843
Burleigh	49,972	48,668	60,729	66,454
Cass	38,472	28,502	43,198	34,167
Cavalier	44,749	45,006	38,670	98,159
Dickey	60,874	55,405	77,188	109,989
Eddy	19,156	14,917	27,602	21,452
Emmons	62,242	54,528	63,080	52,054
Foster	18,400	18,421	19,159	21,240
Grand Forks	42,642	29,098	48,917	38,988
Griggs	25,716	22,432	24,624	19,167
Kidder	28,295	28,379	31,895	5,200
LaMoure	46,166	48,263	60,141	52,938
Logan	34,608	40,537	49,902	46,342
McHenry	61,870	48,054	30,000	61,017
McIntosh	37,728	29,764	55,609	35,240
McKenzie .....	.....	.....	13,254	6,601
McLean	65,334	86,984	81,938	49,384
Mercer	25,442	25,420	33,866	19,004
Morton	57,417	58,555	87,651	88,718
Nelson	38,875	38,800	45,119	37,278
Oliver	18,082	20,160	19,630	15,709
Pembina	31,785	21,788	27,094	28,291
Pierce	39,743	37,679	42,662	28,917
Ramsey	57,005	50,428	49,268	49,975
Ransom .....	.....	.....	61,268	41,873
Richland	51,273	44,679	74,488	59,730
Rolette	26,358	26,017	26,143	30,471
Sargent	65,406	65,950	98,480	67,421
Stark	17,004	18,275	17,225	21,250
Steele	25,388	20,725	32,560	20,957
Stutsman	53,400	53,494	84,070	63,943
Towner	28,828	28,943	24,225	25,836
Traill	16,231	8,044	13,372	11,855
Walsh	32,081	23,332	35,252	30,864
Ward	48,007	51,900	101,956	90,761
Wells	45,393	24,531	46,135	36,056
Williams	13,957	8,190	18,815	2,726
Unorganized	34,106	39,227	16,725	27,500
Total	1,494,544	1,380,644	1,844,509	1,668,089

ACRES LOST BY HAIL, 1902.

COUNTY	Total Loss	Three-quarters Loss	One-Half Loss	One-quarter Loss
Barnes	15,697	7,111	8,530	1,550
Benson	585	946	2,250	3,540
Bottineau	266	.....	.....	504
Burleigh	1,111	485	576	841
Cass	13,275	6,145	26,766	27,441
Cavalier	120	340	1,340	372
Dickey	1,419	848	560	180
Eddy	6,457	1,368	705	2,513
Emmons	220	195	300	57
Foster	6,042	2,756	2,494	1,869
Grand Forks	25,080	13,132	31,357	23,490
Griggs	4,120	2,129	3,399	3,444
Kidder	12	12	95	.....
LaMoure	12,870	4,728	4,362	3,859
Logan	27	803	.....	25
McHenry	207	78	58	513
McIntosh	3,730	2,940	2,956	2,419
McLean	3,836	4,359	2,725	2,384
Mercer	1,549	1,149	309	580
Morton	424	210	566	284
Nelson	18,943	12,951	10,059	13,150
Pembina	5,055	1,533	5,187	6,750
Pierce	443	.....	15	.....
Ramsey	6,735	2,940	2,565	5,056
Ransom	13,599	6,249	5,570	5,294
Richland	344	5	1,060	1,365
Rolette	1,349	1,830	1,860	1,474
Sargent	4,189	2,007	2,284	2,620
Stark .....	.....	.....	.....	70
Steele	220	1	389	.....
Stutsman	10,855	1,698	2,490	2,801
Towner	1,775	1,780	5,183	3,435
Traill	7,329	3,398	5,645	5,352
Walsh	2,659	1,989	4,096	10,884
Ward	661	1,365	876	1,348
Wells	1,165	1,242	1,285	338
Williams	99	86	167	74
Unorganized	6	.....	.....	109
Total	172,473	88,808	138,079	135,985



Stacking Hay.



Threshing Grain.



Diversified Farming Pays in North Dakota.

ACRES LOST BY HAIL, 1903.

COUNTY	Total Loss	Three-quarters Loss	One-half Loss	One-quarter Loss
Barnes	552	515	1,281	3,170
Benson	1,944	990	840	
Bottineau	640	.....	60	40
Burleigh	253	48	4	84
Cass	13,596	4,185	5,686	4,485
Cavalier	1,074	1,378	1,385	2,208
Dickey	145	30	177	
Eddy	2,439	497	487	280
Emmons	7,840	4,574	2,129	470
Foster	6,936	4,150	2,540	895
Grand Forks	1,347	310	1,391	658
Griggs	1,554	1,109	3,022	3,122
Kidder	1,105	702	1,101	190
LaMoure	828	284	721	1,563
Logan	191	53	384	590
McHenry	10	10		
McIntosh	3,024	2,150	1,560	600
McLean	715	210	.....	100
Morton	890	.....	157	
Nelson	554	125	85	70
Pembina	165	.....	126	470
Pierre	294	4,505		
Ramsey	3,266	12,613	8,338	1,340
Ransom	202	80		
Richland	5,116	13,949	10,133	3,693
Sargent	505	1,670	1,080	290
Steele	215	.....	1,010	
Stutsman	390	105	126	375
Trail .....	.....	15	200	1,115
Walsh	2,809	975	1,792	470
Ward	1,741	2,083	4,470	6,779
Wells	4,312	8,336	5,749	1,756
Williams	252	79	46	125
Total	64,904	65,730	56,080	34,938

ACRES LOST BY HAIL, 1904.

COUNTY	Total Loss	Three-quarters Loss	One-half Loss	One-quarter Loss
Barnes	100	40	240	525
Benson	220	830	472	1,303
Billings	28	.....	10	.....
Bottineau	389	382	1,159	2,484
Burleigh .....	.....	.....	33	.....
Cass	1,119	3,853	35,650	9,419
Cavalier	365	805	628	1,765
Dickey	657	630	125	270
Emmons	83	10	103	60
Foster .....	.....	.....	.....	270
Grand Forks	2,241	5,691	8,716	3,498
Griggs .....	.....	.....	170	113
Kidder	29	.....	157	50
LaMoure	513	3,667	9,215	4,272
McIntosh .....	.....	.....	292	705
McLean	577	1,416	4,840	4,307
Mercer	130	.....	195	.....
Morton	31	.....	69	80
Nelson	320	573	6,755	3,782
Oliver	7	53	206	262
Pembina	6,049	2,815	7,340	2,592
Pierce	705	170	115	280
Ramsey	2,380	75	490	3,283
Ransom	381	1,925	3,755	1,445
Richland	42,797	40,787	10,221	1,741
Rolette	914	865	3,936	3,304
Sargent	7,123	9,728	5,065	1,195
Steele	895	210	300	80
Stutsman	2,181	400	60	785
Towner	100	650	115	17
Traill	495	1,756	12,072	7,223
Walsh	1,547	4,206	12,112	16,998
Ward	2,613	2,244	3,928	3,047
Williams	313	251	1,815	321
Total	75,302	84,032	130,359	75,476

ACRES LOST BY HAIL, 1905.

COUNTY	Total Loss	Three-quarters Loss	One-half Loss	One-quarter Loss
Barnes	1,736	1,400	1,978	8,222
Benson	2,366	1,815	4,347	2,040
Bottineau	19,483	4,260	7,850	3,212
Cass	15,350	2,508	9,510	9,305
Cavalier	302	174	312	520
Dickey	595	1,040	538	468
Foster .....	.....	100	610	1,967
Grand Forks	386	.....	.....	240
Griggs	512	583	165	190
LaMoure	40	80	2,615	1,741
McHenry	208	580	690	979
McLean .....	.....	137	338	1,175
Morton	919	475	411	625
Nelson	790	345	535	4,315
Oliver	205	1	46	912
Pembina	2,334	1,256	6,040	6,624
Pierce	60	.....	206	80
Ramsey	1,715	4	20	110
Ransom	5,579	835	3,720	5,260
Richland	4,527	635	1,203	1,535
Rolette	519	.....	395	195
Sargent	2,172	312	344	1,030
Steele	1,292	270	730	40
Towner	50	170	245	531
Traill	881	.....	.....	80
Walsh	1,674	185	1,110	3,634
Ward	600	466	964	2,640
Wells	250	150	600	800
Williams	97	19	157	100
Total	64,642	17,800	45,674	58,570

VALUE OF GARDEN PRODUCTS SOLD.

COUNTY	1902	1903	1904	1905
Barnes	\$ 495	\$ 321	\$ 345	\$ 624
Benson	1,651	1,372	1,309	1,260
Billings			56	3,500
Bottineau	2,786	259	237	2,640
Burleigh	388	60	777	1,395
Cass	1,542	2,343	20,148	819
Cavalier	634	1,853	1,847	1,330
Dickey	4,834	2,463	1,166	4,756
Eddy	400	300	1,120	1,362
Emmons	240	475	305	56
Foster	865	1,581	205	90
Grand Forks	2,119	1,916	3,307	1,973
Griggs	475	839	658	703
Kidder	200	82	494	18
LaMoure	496	839	845	925
Logan		142	61	25
McHenry	1,640	1,493	1,925	2,778
McIntosh	127	174	30	
McKenzie			10	40
McLean	1,921	2,365	3,192	2,106
Mercer	1,750	2,204	15	
Morton	10,809	7,110	8,317	7,367
Nelson	2,812	1,018	1,258	1,082
Oliver	1,152	1,455	669	60
Pembina	428	1,323	659	988
Pierce	171	144	212	428
Ramsey	2,215	3,295	3,219	1,991
Ransom	849	1,289	1,356	2,261
Richland	1,018	1,599	1,039	856
Rolette	1,676	1,153	1,628	652
Sargent	1,425	1,886	1,861	1,194
Stark	2,234	2,269	3,727	3,240
Steele	1,763	1,706	1,025	410
Stutsman	1,838	490	1,625	1,470
Towner	1,735	1,456	1,012	1,702
Traill	743	822	933	235
Walsh	3,344	1,107	4,094	1,453
Ward	1,756	3,777	1,099	7,694
Wells	3,038	1,207	1,394	393
Williams	1,948	387	1,785	166
Unorganized	9	13	150	1,976
Total	63,526	54,587	75,114	62,078

POULTRY AND EGGS.

COUNTY	Amount Sold 1902	Amount Sold 1903	Amount Sold 1904	Amount Sold 1905
Barnes	\$ 5,319	\$ 8,855	\$ 2,417	\$ 41,012
Benson	5,722	4,846	6,422	8,571
Billings .....	.....	.....	131	250
Bottineau	9,379	4,645	7,122	12,912
Burleigh	4,913	3,768	5,639	3,738
Cass	23,517	26,739	36,535	26,587
Cavalier	3,690	3,191	8,825	10,205
Dickey	6,097	7,232	6,296	6,759
Eddy	1,436	1,874	2,980	3,068
Emmons	845	1,525	2,552	5,615
Foster	1,938	2,769	2,123	3,471
Grand Forks	16,563	12,183	16,598	20,848
Griggs	4,710	4,693	7,072	9,752
Kidder	761	1,133	1,188	222
LaMoure	5,659	5,916	9,640	7,407
Logan	726	460	8,715	1,476
McHenry	1,828	2,986	3,215	8,518
McIntosh	1,669	4,319	6,587	5,282
McKenzie .....	.....	.....	120	45
McLean	4,896	2,986	1,148	5,787
Mercer	8,368	9,049	2,010	3,241
Morton	9,531	45,281	48,394	47,468
Nelson	4,759	7,068	6,710	20,336
Oliver	1,986	2,353	1,308	2,406
Pembina	8,270	11,309	12,149	15,468
Pierce	1,334	1,770	3,345	6,819
Ramsey	12,223	12,759	14,261	7,947
Ransom	8,826	10,327	11,144	12,283
Richland	3,065	30,690	33,841	35,411
Rolette	5,587	2,428	4,471	1,750
Sargent	21,713	15,216	29,500	23,615
Stark	3,191	3,564	2,964	2,760
Steele	4,508	7,107	8,222	10,940
Stutsman	8,646	6,464	10,022	6,290
Towner	3,056	1,715	5,747	3,372
Traill	9,499	22,899	4,795	13,725
Walsh	14,381	15,657	20,291	19,389
Ward	9,638	14,993	10,225	26,549
Wells	9,923	13,372	15,370	448
Williams	5,996	137	1,274	1,095
Unorganized	150	261	275	2,390
Total	\$ 254,328	\$ 334,539	\$ 381,643	\$ 445,227

DAIRY PRODUCTS, 1902.

COUNTY	No. Pounds Cheese Made in Families	No. Pounds Butter Made in Families	Total Value of Milk Sold Other than to Factories	Value of Milk sold to Cheese Fac- tories and Creameries
Barnes	290	188,111	\$ 680	\$ 708
Benson	765	48,408	491	60
Billings .....	.....	425	.....	.....
Bottineau .....	.....	114,255	400	400
Burleigh	390	71,341	700	.....
Cass	370	437,082	11,726	1,040
Cavalier	10	197,046	.....	.....
Dickey	200	332,283	3,121	3,854
Eddy	300	96,140	1,517	1,553
Emmons .....	.....	157,010	100	155
Foster	200	61,000	1,898	.....
Grand Forks	800	354,489	4,591	770
Griggs	302	125,413	71	.....
Kidder .....	.....	54,080	.....	.....
LaMoure	20	223,688	68	115
Logan .....	.....	176,339	111	.....
McHenry	4,365	129,807	450	.....
McIntosh .....	.....	308,115	.....	.....
McLean	5,655	159,279	10	.....
Mercer	225	44,104	.....	.....
Morton .....	.....	96,809	2,499	33,127
Nelson	585	284,262	.....	980
Oliver	110	25,467	.....	13,397
Pembina	1,875	364,713	386	364
Pierce	100	50,967	85	.....
Ramsey	350	216,622	64	477
Ransom	2,882	209,109	1,225	4,268
Richland	1,295	274,502	28	2,346
Rolette	21,375	99,494	15	1,349
Sargent	20	172,400	9,712	886
Stark	2,100	70,711	4,725	.....
Steele	1,225	175,459	393	.....
Stutsman	1,750	314,388	1,950	305
Towner .....	.....	112,418	200	.....
Trail	1,000	276,624	300	560
Walsh	818	304,606	4,390	4,531
Ward	840	98,115	.....	1,350
Wells	200	230,430	2,900	11,384
Williams	100	15,350	1,160	.....
Unorganized .....	.....	14,920	.....	260
Total	50,517	6,685,781	55,966	84,239

DAIRY PRODUCTS, 1902—Continued.

COUNTY	No. Pounds Milk Sold to Cheese Factories	No. Pounds Milk Sold to Creameries	No. Cows Used for 1903 Dairying
Barnes .....	.....	232	2,155
Benson .....	.....	4,500	1,834
Bottineau .....	.....	.....	2,130
Burleigh .....	.....	180	880
Cass	1,200	14,680	4,198
Cavalier .....	.....	.....	4,013
Dickey	544,300	185,442	4,873
Eddy .....	.....	4,800	1,042
Emmons .....	.....	.....	1,601
Foster .....	.....	.....	861
Grand Forks .....	.....	100	2,965
Griggs .....	.....	.....	1,597
Kidder .....	.....	.....	473
LaMoure .....	.....	60,671	2,730
Logan .....	.....	.....	2,348
McHenry	80	.....	1,763
McIntosh .....	.....	.....	4,261
McLean .....	.....	3,000	2,803
Mercer .....	.....	107,000	895
Morton	309,486	700,000	4,874
Nelson .....	.....	4,900	3,010
Oliver	82,177	1,475,400	1,101
Pembina .....	.....	8,654	2,889
Pierce .....	.....	.....	1,498
Ramsey .....	.....	43,280	2,226
Ransom	18,500	3,100	2,939
Richland	366	358,759	3,734
Rolette	59,500	.....	821
Sargent .....	.....	14,567,200	5,610
Stark .....	.....	108,509	1,051
Steele .....	.....	.....	1,727
Stutsman .....	.....	10,800	3,339
Towner .....	.....	.....	1,394
Traill .....	.....	200	2,446
Walsh .....	.....	1,080	3,349
Ward .....	.....	.....	1,697
Wells .....	.....	.....	2,932
Williams .....	.....	.....	207
Unorganized .....	.....	36,199	580
Total	1,015,609	20,698,686	90,846

DAIRY PRODUCTS, 1903.

COUNTY	No. Pounds Cheese Made in Families	No. Pounds Butter Made in Families	Total Value of Milk Sold Other than to Factories	Value of Milk Sold to Cheese Fac- ories and Creameries
Barnes	385	260,231	.....	\$ 970
Benson	300	174,793	\$ 1,876	1,092
Bottineau	30	121,863	102	
Burleigh	700	85,550	200	35
Cass	300	456,713	9,697	9,190
Cavalier	6,200	320,730	24	
Dickey	2,800	174,170	2,275	4,570
Eddy	150	106,555	.....	2,202
Emmons .....	.....	277,026	850	1,460
Foster	250	87,850	1,184	
Grand Forks .....	.....	320,975	3,147	1,890
Griggs	300	162,792	49	27
Kidder .....	.....	53,800	10	435
LaMoure	30	233,211	1,575	22,941
Logan .....	.....	194,921	970	2,830
McHenry	9,105	100,900	47	
McIntosh .....	.....	486,753		
McLean	1,455	116,977	84	
Mercer .....	.....	16,970		
Morton	50	86,204	7,110	33,375
Nelson	7,000	258,730	658	931
Oliver	1,990	32,445	225	11,941
Pembina	1,200	341,619	297	1,665
Pierce	85	78,812		
Ramsey	150	244,991	1,734	2,171
Ransom	670	92,005	.....	957
Richland	1,175	309,872	1,001	4,435
Rolette	43,737	87,514	.....	3,802
Sargent	30	169,113	5,875	604
Stark	2,645	69,720	6,472	
Steele	800	174,740		
Stutsman .....	.....	192,336	6,238	2,472
Towner	60	88,267	1,500	
Trail .....	.....	205,533	835	2,375
Walsh	241	325,892	175	60
Ward	1,330	283,328	7,082	505
Wells .....	.....	233,003	11,954	1,532
Williams	20	10,473	1,790	133
Unorganized .....	.....	16,297	200	697
Total	83,188	7,053,674	75,236	115,297

DAIRY PRODUCTS, 1903—Continued.

COUNTY	No. Pounds Milk Sold to Cheese Factories	No. Pounds Milk Sold to Creameries	No. Cows Used for 1904 Dairying
Barnes .....	.....	.....	2,907
Benson .....	.....	.....	1,910
Burleigh .....	.....	.....	1,139
Cass .....	.....	135,319	4,738
Cavalier .....	.....	.....	6,366
Dickey	95,000	440,800	4,667
Eddy .....	.....	.....	1,314
Emmons	1,000	1,000	3,951
Foster .....	.....	.....	982
Grand Forks .....	.....	62,475	2,820
Griggs .....	.....	1,000	1,915
Kidder .....	.....	8,500	284
LaMoure .....	.....	63,410	3,406
Logan .....	.....	5,185	3,347
McHenry .....	.....	.....	1,470
McIntosh .....	.....	.....	5,075
McLean .....	.....	240	3,330
Mercer .....	.....	45,100	665
Morton	512,500	3,133,189	11,607
Nelson .....	.....	8,900	3,326
Oliver	178,644	197,959	1,295
Pembina .....	.....	34,312	3,247
Pierce .....	.....	.....	1,961
Ramsey	40	173,930	2,533
Ransom .....	.....	160,505	3,227
Richland .....	.....	152,560	4,304
Rolette	269,912	.....	651
Sargent .....	.....	13,210,200	5,677
Stark .....	.....	107,920	1,125
Stutsman	5,560	6,230	3,350
Towner .....	.....	.....	997
Traill	300	14,700	2,927
Walsh .....	.....	.....	3,961
Ward .....	.....	.....	4,540
Wells .....	.....	.....	2,571
Unorganized .....	.....	47,870	592
Total	1,062,956	18,011,304	108,377

DAIRY PRODUCTS, 1904.

COUNTY	No. Pounds Cheese Made in Families	No. Pounds of Butter Made in Families	Total Value of Milk Sold Other than to Factories	Value of Milk Sold to Cheese Fac- tories and Creameries
Barnes	160	266,835	.....	\$ 699
Benson	345	239,824	\$ 1,045	865
Billings .....	.....	4,438	.....	.....
Bottineau .....	.....	168,120	1,604	264
Burleigh	780	110,005	3,945	300
Cass	280	469,745	9,443	6,276
Cavalier	405	254,674	1,274	.....
Dickey .....	.....	128,487	.....	43,296
Eddy	100	126,070	1,733	2,214
Emmons	40	294,786	20	2,915
Foster .....	.....	76,118	.....	.....
Grand Forks	140	368,906	8,214	4,395
Griggs .....	.....	182,145	288	871
Kidder .....	.....	46,030	263	5,998
LaMoure	150	214,851	650	21,749
Logan	630	105,988	6,744	7,805
McHenry	9,500	115,925	65	.....
McIntosh .....	.....	209,569	.....	.....
McKenzie	90	2,185	5	.....
McLean	15	180,080	8,810	483
Mercer	970	53,450	.....	.....
Morton	81	89,758	7,016	34,718
Nelson .....	.....	355,837	225	339
Oliver	50	25,318	.....	10,874
Pembina	1,200	249,286	185	464
Pierce .....	.....	106,217	96	701
Ramsey	2,115	414,889	9,771	2,303
Ransom	15	157,944	2,371	14,521
Richland	1,485	371,705	380	6,243
Rolette	1,910	155,540	1,029	1,353
Sargent	250	204,411	1,990	41,370
Stark	1,825	64,390	7,645	.....
Steele .....	.....	211,495	2,945	2,224
Stutsman	440	268,957	6,912	8,128
Towner	650	169,635	2,505	78
Traill	50	242,978	280	1,475
Walsh	850	401,295	1,715	330
Ward	3,906	232,711	.....	80
Wells	6,400	254,666	3,295	.....
Williams	15	25,553	.....	2,734
Unorganized .....	.....	27,640	.....	.....
Total	34,847	7,738,456	\$ 92,466	\$ 226,065

DAIRY PRODUCTS, 1904—Continued.

COUNTY	No. Pounds Milk Sold to Cheese Factories	No. Pounds Milk Sold to Creameries	No. Cows Used for 1905 Dairying
Barnes		23,125	3,869
Benson	400		2,813
Bottineau			3,265
Burleigh			2,327
Cass	15,261	77,575	5,398
Cavalier			2,581
Dickey	36,000	447,300	5,160
Eddy		11,500	1,775
Emmons		3,300	3,491
Foster			1,190
Grand Forks		22,625	3,464
Griggs	41	44,960	2,259
Kidder		60,925	839
LaMoure	600	2,644	3,703
Logan	20	63,102	3,700
McIntosh			6,243
McKenzie			55
McLean		180	4,618
Mercer		45,100	1,137
Morton	514,687	3,286,461	12,413
Nelson			3,973
Oliver	230,570	1,413,019	1,545
Pembina		9,905	2,981
Pierce		1,000	1,759
Ramsey	650	70,864	3,080
Ransom	18,607	41,248	4,416
Richland			4,368
Rolette	3,600		1,751
Sargent		1,219,739	2,758
Stark		87,625	842
Steele	1,000	1,046,719	2,553
Stutsman	1,830	16,795	4,178
Towner		900	1,790
Traill	500	30,374	3,409
Walsh			4,326
Ward		5,179	3,987
Wells		57,935	4,169
Williams			529
Total	823,766	8,090,099	122,714

DAIRY PRODUCTS, 1905.

COUNTY	No. Pounds Cheese Made in Families	No. Pounds Butter Made in Families	Total Value of Milk Sold Other than to Factories	Value of Milk Sold to Cheese Fac- tories and Creameries
Barnes	1,190	254,898	\$ 1,132	\$ 14,595
Benson	6,955	130,391	860	455
Billings		3,820		
Bottineau		218,051	3,445	1,067
Burleigh	480	83,005	2,891	5,110
Cass	7,455	552,641	95	
Cavalier	300	305,010	92	775
Dickey	350	80,517	4,625	46,226
Eddy	150	109,987	891	6,049
Emmons	200	221,163	17	6,682
Foster		69,760		
Grand Forks	890	380,245	3,760	3,799
Griggs	10	195,715	830	295
Kidder		52,279		7,000
LaMoure	300	252,160	236	28,381
Logan		235,125		28,052
McHenry	2,940	171,824	1,100	7,259
McIntosh		278,640		9,270
McKenzie	50	5,230		
McLean	77	204,526	425	
Mercer	1,120	77,268		450
Morton	2,050	95,943	12,935	35,995
Nelson	225	360,910	300	700
Oliver		41,307		16,892
Pembina	1,110	387,153	410	295
Pierce		121,562	177	826
Ramsey	475	273,998	3,214	3,914
Ransom		257,326	1,090	25,153
Richland	567	400,744	7,698	16,300
Rolette	1,350	59,226	68	110
Sargent	150	184,499	9,596	72,862
Stark	1,570	62,700	8,425	
Steele	675	262,665	341	2,558
Stutsman		253,910		12,276
Towner	225	148,402	3,903	300
Traill	5	284,997	210	1,118
Walsh	45	408,130	802	110
Ward	3,360	380,584	4,977	10,320
Wells	11,158	152,478	274	1,058
Williams		15,954	73	
Unorganized		32,560		
Total	45,435	8,067,303	\$ 74,892	\$ 356,252

DAIRY PRODUCTS, 1905—Continued.

COUNTY	No. Pounds Milk Sold to Cheese Factories	No. Pounds Milk Sold to Creameries	No. Cows Used for 1906 Dairying
Barnes	35,035	37,495	3,966
Benson		1,880	2,272
Billings			65
Bottineau		250	3,548
Burleigh		45,000	1,389
Cass	4	68,020	4,987
Cavalier	600	11,500	2,604
Dickey	400	592,868	3,711
Eddy	950	44,000	1,613
Emmons	100	2,000	3,795
Foster			1,294
Grand Forks	1,010	21,870	3,858
Griggs		400	1,910
Kidder		7,000	1,009
LaMoure		8,524	3,941
Logan	81,000	35,175	4,566
McHenry			2,784
McIntosh	380		5,462
McKenzie			84
McLean	375	14,000	2,970
Mercer			945
Morton		2,614,565	9,890
Nelson			3,488
Oliver		2,236,241	1,528
Pembina		3,200	3,123
Pierce			2,516
Ramsey		116,867	3,101
Ransom		16,430	5,703
Richland	4,955	61,975	4,968
Rolette	106,872		1,418
Sargent		1,780,000	5,776
Stark		81,200	795
Steele	610	2,000	2,374
Stutsman			3,273
Towner	32	500	1,563
Traill	1,000	60,086	3,582
Walsh		4,140	4,794
Ward			6,469
Wells	150	113,500	3,534
Williams			249
Unorganized			420
Total	233,473	7,980,776	125,337

SHEEP AND WOOL.

COUNTY	1902 No. Sheep Sheared	1902 No. Pounds Wool Clipped	1903 No. Sheep Sheared	1903 No. Pounds Wool Clipped
Barnes	1,470	8,496	517	2,548
Benson	309	2,354	868	6,076
Billings	70,000	420,000	105,000	630,000
Bottineau	400	2,000	139	761
Burleigh	7,220	45,856	6,019	36,409
Cass	2,786	19,645	1,607	11,746
Cavalier	1,586	825	1,198	8,330
Dickey	12,336	66,899	6,761	44,674
Eddy	265	1,598	118	1,556
Emmons	17,079	94,056	11,559	64,947
Foster	1,167	7,480	1,342	7,502
Grand Forks	825	4,478	593	3,817
Griggs	3,583	28,803	504	8,109
Kidder	7,122	40,585	17,688	70,752
LaMoure	5,595	34,222	5,404	32,148
Logan	10,933	68,470	13,592	88,626
McHenry	693	2,555	324	2,021
McIntosh	6,602	55,338	8,107	45,737
McLean	2,037	15,721	3,192	20,061
Mercer	17,904	83,582	19,911	93,582
Morton	35,289	250,672	33,300	200,117
Nelson	1,129	6,474	360	2,633
Oliver	1,390	7,304	2,813	17,079
Pembina	2,687	19,040	2,735	17,495
Pierce	293	515	71	295
Ramsey	693	4,122	1,129	6,392
Ransom	1,569	10,074	1,645	10,320
Richland	6,100	9,224	1,684	11,023
Rolette	507	3,409	444	2,634
Sargent	3,710	27,970	3,588	23,882
Stark	9,385	57,860	10,762	69,953
Steele	314	2,260	177	1,126
Stutsman	19,345	129,868	19,115	115,647
Towner	57	535	137	796
Trall	1,017	6,966	2,007	12,686
Walsh	574	4,140	693	5,173
Ward	1,631	9,385	234	1,138
Wells	2,652	13,087	728	4,160
Williams	6,478	11,880	52	350
Unorganized	43,755	251,579	47,640	333,480
Total	308,487	1,829,327	333,757	2,015,781

SHEEP AND WOOL—Continued.

COUNTY	1904 No. Sheep Sheared	1904 No. Pounds Wool Clipped	1905 No. Sheep Sheared	1905 No. Pounds Wool Clipped
Barnes	50	579	283	1,862
Benson	404	3,037	611	3,033
Billings	52,512	331,350	107,308	869,095
Bottineau	587	659	147	780
Burleigh	8,282	31,838	6,749	38,496
Cass	1,475	10,945	3,177	14,031
Cavalier	1,314	4,314	342	2,729
Dickey	7,346	48,488	3,331	30,384
Eddy	1,414	10,395	1,192	6,562
Emmons	10,285	62,171	10,008	56,791
Foster	1,063	7,100	1,600	4,900
Grand Forks	951	7,395	462	2,371
Griggs	2,295	13,793	1,389	7,548
Kidder	12,212	49,848	8,882	47,465
LaMoure	3,894	24,669	2,837	15,149
Logan	9,077	56,329	8,772	54,950
McHenry	1,682	10,625	526	3,249
McIntosh	7,943	63,544	8,387	62,902
McKenzie	7,500	42,000	14,026	102,028
McLean	3,829	19,921	389	4,641
Mercer	6,531	35,491	10,223	34,998
Morton	47,908	287,313	32,107	165,788
Nelson	350	1,817	944	2,855
Oliver	1,528	7,010	1,925	13,385
Pembina	2,674	16,987	2,163	16,036
Pierce	97	785	47	331
Ramsey	868	6,929	1,324	9,468
Ransom	1,896	10,323	911	3,413
Richland	1,955	11,646	1,078	8,774
Rolette	360	1,906	951	1,708
Sargent	1,678	11,680	1,128	10,298
Stark	22,267	133,602	18,930	126,210
Steele	231	1,714	215	674
Stutsman	14,661	83,911	4,113	29,178
Towner	16	155	144	633
Traill	2,202	8,627	851	5,967
Walsh	703	5,178	198	1,171
Ward	558	2,967	1,791	11,570
Wells	4,104	10,797	3,109	42,818
Williams	594	3,687	378	1,795
Unorganized	70,502	421,012	111,750	894,000
Total	315,748	1,862,537	374,698	2,710,036

ORCHARDS AND FRUIT, 1902.

COUNTY	Trees in Bearing	Trees Not Bearing	No. Acres Berries	Value of Fruit Sold	Artificial Trees Acres
Barnes	284	308	59	.....	962
Benson	213	6	2	.....	578
Bottineau	3	88	2	\$ 10	202
Burleigh	2	30	1	.....	52
Cass	259	690	239	97	588
Cavalier .....	.....	35	3	.....	235
Dickey	65	5,357	12	18	71
Eddy	3	.....	2	20	354
Foster	24	.....	25	20	81
Grand Forks	705	713	14	249	972
Griggs	83	179	340	.....	192
Kidder .....	.....	4	1	.....	406
LaMoure	206	.....	1	.....	2,124
McHenry .....	.....	24	61	100	1,127
McLean	7	217	50	.....	2,018
Morton	4	14	.....	.....	.....
Pembina	309	526	.....	35	244
Pierce	24	296	.....	.....	159
Ramsey	163	135	4	.....	4,187
Ransom	16	106	70	42	192
Richland	195	944	464	73	4,592
Rolette .....	.....	.....	1	5	45
Sargent	215	99	2	.....	362
Stark	62	96	30	15	113
Steele	69	282	3	35	6,792
Stutsman .....	.....	.....	3	9	124
Towner .....	.....	24	61	.....	86
Traill	298	622	11	135	596
Walsh	475	988	3	175	727
Ward	37	232	97	227	778
Wells .....	.....	.....	7	.....	308
Total	3,821	12,015	1,568	\$ 1,265	29,267



Corn Field in the Slope.



Horse Ranch.







North Dakota Homes.
Result of Wheat Raising.

1

2

ORCHARDS AND FRUIT, 1903.

COUNTY	Trees in Bearing	Trees not Bearing	No. Acres Berries	Value of Fruit Sold	Artificial Forests Acres
Barnes	844	1,181	51	\$ 40	6,872
Benson	117	78	101	35	475
Bottineau	56	75	4	.....	3,131
Burleigh	76	27	.....	.....	2,280
Cass	515	1,521	6,877	3,935	4,204
Cavalier	300	170	47	.....	426
Dickey	150	227	228	12	3,307
Eddy	3	9	1	50	384
Emmons	15	302	.....	.....	.....
Foster	24	.....	.....	.....	.....
Grand Forks	188	280	19	60	1,251
Griggs	164	57	21	.....	184
Kidder .....	.....	.....	.....	.....	176
LaMoure	3,143	671	17	138	93
Logan .....	.....	.....	2	.....	.....
McHenry	24	.....	.....	.....	1,644
McLean .....	.....	307	6	.....	55
Morton	10	15	2	.....	100
Nelson .....	.....	60	13	.....	208
Pembina	180	540	26	62	98
Pierce .....	.....	343	.....	.....	200
Ramsey	183	70	2	.....	278
Ransom	71	225	118	96	376
Richland	241	1,807	478	260	5,262
Rolette .....	.....	12	3	10	96
Sargent	327	1,256	4	149	431
Stark	65	112	19	14	119
Steele	185	270	3	49	706
Stutsman	135	730	.....	.....	217
Towner .....	.....	512	2	.....	27
Traill	282	464	8	252	711
Walsh	781	2,186	2,899	56	706
Ward	4	120	189	.....	554
Wells .....	.....	323	340	.....	854
Williams .....	.....	.....	.....	.....	2
Unorganized .....	.....	.....	.....	.....	1
Total	8,083	13,950	11,480	\$ 5,218	35,428

ORCHARDS AND FRUIT, 1904.

COUNTY	Trees in Bearing	Trees not Bearing	No. Acres Berries	Value of Fruit Sold	Artificial Forests Acre
Barnes	30	1,526	.....	\$ 26.24	
Benson	493	417	206	17.75	119
Bottineau	60	140	20.5	100.00	742
Burleigh	28	345	628	42.00	22,665
Cass	1,006	3,947	6,421	22,777.00	1,124
Cavalier	269	80	48.75	.....	474
Dickey	266	659	4	170.00	132
Eddy	11	25	1.75	7.00	208
Foster .....	.....	.....	.....	.....	9,329
Grand Forks..	410	1,345	22	326.00	2,484
Griggs	146	101	.75	.....	290
Kidder .....	.....	35	.25	7.00	36
LaMoure	444	1,369	42	47.00	8,284
Logan	1	1	.....	.....	.....
McHenry	31	64	12	.....	56
McKenzie	56	304	.....	.....	146.5
Mercer	63	4	.....	.....	.....
Morton	48	17	6	.....	140
Nelson	615	.....	86.5	.....	196
Oliver	2	66	2.5	.....	20.5
Pembina	115	588	.....	55.00	532
Pierce	1,037	935	39.75	.....	1,123.5
Ramsey	729	113	229	43.00	370.5
Ransom	98	1,847	1,030	124.00	636
Richland	588	3,458	261	253.00	1,790
Rolette	151	706	37	.....	700
Sargent	923	1,930	12	575.00	900
Stark	107	227	22	27.50	122
Steele	138	1,190	12.5	60.00	747
Stutsman	60	90	32	10.00	499
Towner	251	2	1	.....	170.5
Traill	218	1,359	6.5	184.60	570.5
Walsh	1,979	2,861	10	1,164.00	2,587
Ward	49	863	5,869	505.75	650
Wells .....	.....	.....	86	19.25	27,080
Williams	150	.....	1	.....	1,759
Unorganized ..	.....	.....	.....	.....	10
Total ..	10,572	26,614	15,150.75	\$26,541.09	86,693

ORCHARDS AND FRUIT, 1905.

COUNTY	Trees in Bearing	Trees Not Bearing	No. Acres Berries	Value of Fruit Sold	Artificial Forests Acres
Barnes	291	2,587	436	\$ 40.00	52
Benson	483	650	270.5	51.00	453
Billings .....	.....	100	.....	.....	.....
Bottineau	38	139	11	70.00	1,113
Burleigh .....	.....	.....	.....	.....	50
Cass	1,719	5,097	7,038	167.00	993
Cavalier	113	361	208	4.00	5,118
Dickey	268	1,742	57	15.00	500
Eddy	41	755	1	20.00	231
Emmons	3	182	.25	.....	2,010
Grand Forks ..	1,620	1,684	3,866	400.00	2,070
Griggs	28	423	73.25	110.00	201.5
Kidder .....	.....	.....	.....	.....	4.5
LaMoure	2,075	919	1,411	40.00	14,156
Logan	12	.....	.....	.....	9
McHenry	11	824	2,159	.....	.....
McLean	29	218	4	.....	.....
Mercer	68	664	.....	.....	.....
Morton	55	357	6.25	20.00	216
Nelson	127	344	1.75	.....	257.75
Oliver	2	287	1	15.00	5
Pembina	118	1,443	166	150.00	344
Pierce	454	734	346	.....	287
Ramsey	135	866	1,153	121.00	441.5
Ransom	859	3,796	454	10.00	14,351
Richland	389	6,462	120	67.00	575
Rolette	18	303	96.75	5.00	193.5
Sargent	329	3,073	36	215.00	4,355
Stark	127	310	29	18.00	127
Steele	585	2,620	279.5	224.00	631
Stutsman .....	.....	.....	.....	.....	448
Towner	145	46	2,090	.....	392
Traill	355	1,820	17	130.00	1,036
Walsh	1,807	1,728	103	96.00	3,093
Ward	65	1,991	5,870	100.00	1,599
Wells	141	209	132	28.00	428
Williams .....	.....	161	5.25	.....	183
Unorganized ..	.....	.....	.....	.....	14
Total ..	12,505	42,895	26,441.5	\$ 2,116.00	55,937.75

LIVE STOCK, 1903.

COUNTY	No. Horses	No. Mules	No. Cattle	No. Sheep	No. Hogs
Barnes	10,807	70	14,330	1,480	6,013
Benson	8,183	104	10,885	726	3,489
Billings	4,760	12	20,672	103,860	71
Bottineau	12,000	173	11,697	557	2,763
Burleigh	4,674	32	16,840	13,145	844
Cass	16,794	372	17,579	2,454	17,468
Cavalier	11,987	143	11,704	1,189	3,011
Dickey	4,977	54	23,368	17,992	4,524
Eddy	3,445	105	6,735	775	1,844
Emmons	6,420	17	22,754	24,827	3,079
Foster	3,553	172	6,551	1,720	2,221
Grand Forks	13,398	121	17,007	1,482	8,576
Griggs	6,246	52	8,797	4,798	3,248
Kidder	2,530	30	10,508	17,275	329
LaMoure	6,298	114	17,471	7,197	3,790
Logan	2,641	11	11,860	15,705	1,199
McHenry	5,861	153	5,641	1,162	1,932
McIntosh	4,755	6	15,557	8,015	3,376
McLean	9,936	110	20,478	8,282	3,328
Mercer	3,020	3	16,023	15,078	1,473
Morton	7,448	30	38,634	36,235	2,866
Nelson	8,209	221	15,744	2,530	4,295
Oliver	1,894	7	8,564	2,301	1,259
Pembina	10,239	25	12,143	4,465	6,467
Pierce	7,875	86	11,280	1,022	3,070
Ramsey	9,175	182	12,698	1,642	3,818
Ransom	5,225	26	13,838	3,342	4,834
Richland	13,128	319	20,037	11,112	5,698
Rolette	6,046	116	7,240	1,039	1,785
Sargent	6,407	50	24,745	5,120	9,220
Stark	2,390	1	10,385	7,676	1,707
Steele	6,813	102	9,337	1,145	3,874
Stutsman	7,716	78	15,626	26,053	2,157
Towner	7,106	298	7,260	709	5,137
Traill	9,866	626	11,070	2,438	7,554
Walsh	12,105	20	16,758	1,717	7,431
Ward	17,762	457	30,634	4,175	2,223
Wells	8,833	123	12,220	2,902	2,199
Williams	2,258	12	5,570	6,294	325
Unorganized	3,279	.....	24,181	83,495	631
Total	319,809	4,632	594,421	453,131	149,128

LIVE STOCK, 1904.

COUNTY	No. Horses	No. Mules	No. Cattle	No. Sheep	No. Hogs
Barnes	9,034	46	14,342	395	6,594
Benson	8,462	128	10,385	1,425	9,564
Billings	7,031	3	26,076	53,324	94
Bottineau	12,238	263	13,672	375	5,132
Burleigh	4,970	36	17,401	10,255	840
Cass	17,309	374	19,279	146	16,279
Cavalier	12,464	143	12,949	1,314	7,502
Dickey	6,798	745	21,641	9,125	5,958
Eddy	3,574	115	6,960	1,802	2,212
Emmons	7,127	14	24,598	14,962	3,264
Foster	3,910	183	7,311	1,111	2,417
Grand Forks	11,937	308	17,186	860	6,949
Griggs	7,002	133	8,309	3,101	2,494
Kidder	2,756	34	10,782	12,939	361
LaMoure	6,964	131	19,321	6,464	4,261
Logan	2,951	13	13,942	15,697	1,323
McHenry	5,567	116	11,901	488	2,762
McIntosh	4,815	12	17,306	8,684	3,231
McLean	9,085	143	19,407	6,163	3,191
Mercer	3,007	18	12,549	13,039	871
Morton	8,729	42	38,123	34,372	1,611
Nelson	8,309	219	14,243	1,347	4,026
Oliver	2,107	.....	8,531	4,110	1,365
Pembina	10,213	25	12,355	3,748	5,709
Pierce	7,692	85	8,459	175	1,779
Ramsey	9,693	195	14,167	1,741	3,632
Ransom	4,654	221	13,016	1,641	5,596
Richland	13,573	1,310	20,352	10,141	6,703
Rolette	5,554	62	8,578	852	2,709
Sargent	7,368	65	24,595	2,787	5,020
Stark	3,056	11	13,792	15,895	2,024
Steele	7,068	136	10,708	528	4,283
Stutsman	8,209	107	18,652	18,806	1,443
Towner	7,058	222	7,294	450	3,761
Traill	9,763	838	12,767	2,012	7,770
Walsh	12,972	470	17,548	822	6,454
Ward	19,158	503	31,413	2,529	2,577
Wells	10,172	469	15,864	2,217	4,999
Williams	1,297	34	1,361	52	187
Unorganized	6,048	6	38,931	70,502	283
Total	309,694	7,978	636,066	336,396	157,230

LIVE STOCK, . 1905.

COUNTY	No. Horses	No. Mules	No. Cattle	No. Sheep	No. Hogs
Barnes	11,392	56	17,142	463	6,555
Benson	9,133	129	11,506	1,036	4,329
Billings	7,373	6	26,093	62,017	184
Bottineau	13,599	258	15,370	386	5,909
Burleigh	4,120	45	15,613	6,995	1,459
Cass	19,054	385	18,527	2,177	13,335
Cavalier	12,744	147	11,999	1,104	2,987
Dickey	7,116	80	26,452	6,147	7,685
Eddy	3,986	103	7,822	435	2,392
Emmons	7,190	11	22,838	8,040	3,858
Foster	4,017	128	8,149	1,444	2,185
Grand Forks	12,727	315	16,836	1,075	6,615
Griggs	7,935	107	9,727	2,124	4,386
Kidder	3,106	21	10,395	9,363	263
LaMoure	7,331	141	19,116	3,932	4,045
Logan	3,304	5	12,989	9,184	1,475
McHenry	12,712	272	20,543	1,344	3,291
McIntosh	5,458	12	17,822	7,795	4,274
McKenzie	2,603	10	10,235	3,700	96
McLean	11,133	119	22,161	4,283	3,468
Mercer	3,059	5	11,220	9,921	2,019
Morton	9,913	43	37,947	33,261	1,927
Nelson	9,026	300	15,919	912	4,384
Oliver	2,644	10	10,034	4,089	1,685
Pembina	10,281	23	11,247	3,467	4,642
Pierce	8,147	88	9,584	193	1,987
Ramsey	10,685	170	14,804	1,883	4,746
Ransom	6,193	41	15,555	3,114	4,867
Richland	14,024	294	20,712	2,117	5,895
Rolette	5,594	76	9,283	786	3,842
Sargent	7,318	46	22,383	2,095	11,735
Stark	3,749	8	14,420	16,730	810
Steele	8,487	142	11,472	550	4,540
Stutsman	9,927	104	19,814	12,651	1,973
Towner	8,109	614	8,887	207	5,026
Traill	10,827	622	11,985	1,610	6,760
Walsh	13,879	48	17,077	323	5,884
Ward	16,466	300	23,971	1,290	4,681
Wells	12,704	161	20,293	3,452	5,879
Williams	3,114	69	4,680	974	453
Unorganized	7,302	6	32,318	111,750	499
Total	347,481	5,520	664,940	344,419	163,025

LIVE STOCK, 1906.

COUNTY	No. Horses	No. Mules	No. Cattle	No. Sheep	No. Hogs
Barnes	11,070	61	14,879	302	5,050
Benson	7,732	82	9,398	617	4,334
Billings	4,045	.....	9,955	107,300	96
Bottineau	13,337	266	13,947	459	3,865
Burleigh	5,311	20	18,033	4,320	1,780
Cass	18,103	784	17,517	3,034	11,279
Cavalier	13,842	154	16,629	1,018	3,051
Dickey	6,882	63	23,302	2,807	8,882
Eddy	4,484	129	7,560	412	2,735
Emmons	6,963	14	22,543	16,562	3,948
Foster	4,685	177	4,027	1,486	1,272
Grand Forks	14,307	358	16,245	1,049	6,295
Griggs	7,937	93	8,846	2,718	4,271
Kidder	3,667	23	9,515	8,882	279
LaMoure	7,763	133	18,257	2,716	3,879
Logan	5,289	18	13,049	6,818	2,047
McHenry	14,458	270	18,641	1,137	3,633
McIntosh	4,787	13	16,264	6,033	4,113
McKenzie	3,134	2	13,821	11,615	136
McLean	9,497	74	15,192	1,190	2,886
Mercer	3,295	9	9,464	11,404	1,953
Morton	10,937	33	34,478	32,384	2,876
Nelson	9,854	272	13,583	1,132	4,509
Oliver	2,923	26	10,081	3,297	2,795
Pembina	10,115	32	10,170	3,868	4,565
Pierce	8,666	57	10,468	78	3,646
Ramsey	11,138	232	13,130	1,868	5,117
Ransom	6,361	36	20,042	826	5,776
Richland	13,028	101	21,983	1,644	14,798
Rolette	5,913	117	8,023	771	4,410
Sargent	7,160	64	22,706	2,024	12,709
Stark	4,872	9	9,490	18,030	1,172
Steele	7,421	165	8,743	372	3,555
Stutsman	11,057	225	18,569	8,604	1,724
Towner	8,178	417	6,953	403	5,396
Traill	9,795	429	10,692	1,068	5,017
Walsh	13,814	37	14,698	490	5,962
Ward	22,357	394	25,484	839	8,051
Wells	9,720	232	15,152	2,887	5,848
Williams	1,866	25	1,790	22	258
Unorganized	8,538	12	32,256	109,530	637
Total	354,301	5,658	605,575	382,016	174,605

LIVE STOCK, 1902.

COUNTY	Value of Animals Fattened and Killed for Home use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Outside the State	Value of Horses Sold to Markets Outside the State	Value of All Kinds of Stock Brought into State
Barnes	\$ 16,910	\$ 5,326	\$ 4,549	\$ 2,304
Benson	50,972	5,327	750	16,132
Billings .....	.....	260,000	40,000	175,000
Bottineau	32,631	2,735	2,508	25,915
Burleigh	24,138	20,527	6,850	13,276
Cass	192,852	42,767	6,153	4,330
Cavalier	81,449	12,608	1,503	2,157
Dickey	52,716	38,237	34,200	3,359
Eddy	32,965	16,385	.....	2,980
Emmons	22,285	141,475	1,185	15,320
Foster	23,649	19,387	.....	34,385
Grand Forks	125,720	11,837	560	4,195
Griggs	33,685	9,022	1,655	9,956
Kidder	2,365	6,918	329	3,670
LaMoure	44,505	66,182	6,702	6,265
Logan	14,837	91,791	9,426	4,969
McHenry	24,730	16,275	.....	602
McIntosh	33,099	79,045	10,005	65,069
McLean	25,974	39,052	.....	.....
Mercer	8,194	69,168	.....	5,500
Morton	22,322	218,880	26,562	36,563
Nelson	23,206	67,334	.....	5,600
Oliver	14,063	25,870	.....	.....
Pembina	197,840	13,741	1,075	10,045
Pierce	60,979	6,607	.....	8,250
Ramsey	84,621	4,498	495	11,600
Ransom	55,273	53,936	3,345	3,612
Richland	47,059	23,010	2,935	10,533
Rolette	104,522	2,661	595	2,485
Sargent	45,660	186,607	5,860	23,360
Stark	19,218	53,054	12,501	20,020
Steele	65,080	5,340	319	2,290
Stutsman	84,051	60,332	9,820	20,995
Towner	5,489	12,991	.....	1,290
Trail	88,066	13,005	1,460	6,925
Walsh	109,816	14,100	472	6,902
Ward	29,386	12,988	469	52,488
Wells	39,423	10,024	.....	.....
Williams	4,802	38,677	120	6,351
Unorganized	8,405	187,482	2,103	23,278
Total	\$1,952,897	\$1,965,201	\$ 194,406	\$ 648,001

LIVE STOCK, 1903.

COUNTY	Value of Animals Fattened and Killed for Home Use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Outside the State	Value of Horses Sold to Markets Outside the State	Value of All Kinds of Stock Brought into State
Barnes	\$ 69,527	\$ 32,241	\$ 3,884	\$ 2,523
Benson	34,865	10,045	.....	2,415
Billings .....	.....	250,000	35,000	150,000
Bottineau	45,057	10,277	625	1,637
Burleigh	25,200	47,928	.....	16,470
Cass	182,473	118,782	2,400	13,445
Cavalier	84,855	14,931	839	8,052
Dickey	35,439	120,384	9,849	14,655
Eddy	31,823	4,525	.....	.....
Emmons	26,516	103,985	2,237	1,400
Foster	35,787	39,656	.....	6,950
Grand Forks	105,290	18,147	.....	5,300
Griggs	37,530	13,910	5,025	15,360
Kidder	5,466	29,782	1,000	3,960
LaMoure	53,310	45,018	6,528	14,906
Logan	14,738	19,017	.....	4,610
McHenry	34,890	33,729	563	3,050
McIntosh	51,869	45,063	3,500	.....
McLean	30,884	21,352	4,100	25,950
Mercer	9,701	11,601	.....	.....
Morton	28,504	188,865	21,116	15,070
Nelson	59,429	29,516	205	2,954
Oliver	16,253	21,212	.....	.....
Pembina	113,303	12,472	.....	12,055
Pierce	39,550	4,788	.....	1,890
Ramsey	60,387	5,768	1,555	4,800
Ransom	40,910	45,923	2,465	13,687
Richland	106,341	32,838	1,511	3,401
Rolette	74,126	452	11,655	23,280
Sargent	64,061	138,314	.....	.....
Stark	25,730	59,840	9,870	47,600
Steele	54,816	12,350	250	3,056
Stutsman	51,003	101,354	1,445	6,188
Towner	41,779	7,140	.....	3,750
Traill	79,716	26,031	180	3,567
Walsh	109,766	9,619	2,000	1,310
Ward	72,231	10,123	1,440	11,076
Wells	41,774	11,047	1,469	.....
Williams	111,893	9,410	400	9,356
Unorganized	9,651	210,576	10,730	37,640
Total	\$2,116,443	\$1,928,011	\$ 141,841	\$ 491,363

LIVE STOCK, 1904.

COUNTY	Value of Animals Fattened and Killed for Home use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Outside the State	Value of Horses Sold to Markets Outside the State	Value of All Kinds of Stock Brought into State
Barnes	\$ 53,869	\$ 17,215	\$ 410	\$ 1,010
Benson	67,206	8,092	700	250
Billings	4,286	211,114	52,425	50,000
Bottineau	41,835	8,585	235	4,064
Burleigh	36,651	116,050	.....	10,500
Cass	329,784	317,825	123,300	37,500
Cavalier	91,612	13,752	.....	2,380
Dickey	39,082	235,635	2,255	6,350
Eddy	34,155	34,803	.....	460
Emmons	30,865	106,310	4,830	2,300
Foster	37,636	32,875	.....	.....
Grand Forks	121,833	28,320	150	1,184
Griggs	36,447	27,039	1,671	11,750
Kidder	6,630	33,074	2,800	3,450
LaMoure	52,067	80,764	2,647	5,285
Logan	14,064	20,667	.....	.....
McHenry	32,325	55,225	.....	9,715
McIntosh	605	531	.....	.....
McKenzie	2,088	33,280	.....	12,575
McLean	44,791	93,859	3,190	7,167
Mercer	5,590	21,600	1,776	.....
Morton	29,875	210,859	26,975	17,987
Nelson	78,694	32,344	.....	675
Oliver	18,183	47,186	225	12
Pembina	110,319	11,569	.....	6,170
Pierce	35,473	9,167	416	400
Ramsey	72,234	19,835	2,795	160
Ransom	64,162	87,363	5,860	1,278
Richland	126,998	83,845	8,862	7,610
Rolette	41,849	73,058	.....	1,600
Sargent	52,520	217,650	13,420	19,670
Stark	27,690	56,275	16,970	37,295
Steele	78,681	18,797	6,125	2,510
Stutsman	60,414	71,698	1,320	1,250
Towner	65,126	4,854	.....	875
Traill	52,281	6,846	1,792	1,738
Walsh	126,568	25,851	70	2,072
Ward	40,578	38,963	1,137	10,983
Wells	45,973	29,530	1,653	1,162
Williams	5,977	10,653	2,825	1,935
Unorganized	10,520	196,750	15,900	29,700
Total	\$2,227,536	\$2,749,708	\$ 302,734	\$ 311,022

LIVE STOCK, 1905.

COUNTY	Value of Animals Fattened and Killed for Home use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Outside the State	Value of Horses Sold to Markets Outside the State	Value of All Kinds of Stock Brought into State
Barnes	\$ 8,799	\$ 69,101	\$ 855	\$ 6,359
Benson	91,831	11,682		
Billings	2,570	146,615	5,300	
Bottineau	50,771	8,421	1,377	10,720
Burleigh	24,053	33,597	1,102	6,265
Cass	201,355	74,631	8,758	6,610
Cavalier	108,204	41,475	.....	3,697
Dickey	45,645	179,698	11,070	15,705
Eddy	34,948	51,997	100	698
Emmons	28,343	106,008	700	1,000
Foster	1,145	3,390	300	
Grand Forks	131,065	48,955	2,470	21,550
Griggs	49,839	34,090	4,350	5,905
Kidder	1,463	31,286	1,430	11,270
LaMoure	59,982	107,261	9,038	16,201
Logan	22,772	115,593		
McHenry	53,743	122,570	109	4,036
McIntosh	47,030	45,626		
McKenzie	3,512	140,959	5,000	
McLean	13,934	60,872	.....	8,940
Mercer	7,371	29,704		
Morton	39,486	131,697	14,190	15,108
Nelson	85,743	57,649	2,210	4,230
Oliver	23,930	41,243	615	2,494
Pembina	108,130	20,375	150	13,125
Pierce	42,021	30,370		
Ramsey	96,586	26,153	3,270	15,650
Ransom	46,652	102,640	715	5,242
Richland	150,346	63,143	10,030	5,431
Rolette	4,956	740	400	400
Sargent	48,815	195,600	7,100	5,320
Stark	29,960	64,300	12,900	26,800
Steele	82,548	20,348	4,180	4,450
Stutsman	73,773	79,259	6,415	13,040
Towner	78,039	14,943	670	9,167
Trall	32,196	24,660	4,200	3,952
Walsh	122,802	23,081	690	2,290
Ward	125,294	37,528	4,575	19,332
Wells	1,644	3,847	.....	300
Williams	2,406	562	.....	200
Unorganized	12,600	210,500	43,900	150,000
Total	\$2,196,298	\$2,613,069	\$ 168,169	\$ 415,487

VITAL, 1903.

COUNTY	No. Males Living on Farms	No. Females Living on Farms	No. Births	No. Deaths
Barnes	3,789	2,875	168	23
Benson	3,192	2,292	139	26
Billings	480	200	10	1
Bottineau	4,497	3,477	169	47
Burleigh	1,139	944	33	13
Cass	5,816	4,487	203	46
Cavalier	4,053	3,998	319	67
Dickey	2,259	1,881	115	43
Eddy	1,184	922	51	13
Emmons	1,971	1,797	172	22
Foster	1,178	776	61	12
Grand Forks	5,625	4,315	216	61
Griggs	2,260	1,650	87	34
Kidder	680	570	34	12
LaMoure	2,315	1,964	124	36
Logan	1,382	1,249	124	45
McHenry	3,153	2,447	176	40
McIntosh	2,118	1,477	74	23
McLean	3,929	3,328	359	67
Mercer	1,112	901	80	20
Morton	2,062	1,849	137	32
Nelson	3,128	2,484	96	28
Oliver	746	569	31	9
Pembina	4,758	3,764	141	42
Pierce	3,427	2,603	224	38
Ramsey	3,251	2,363	145	19
Ransom	2,232	1,848	100	29
Richland	4,348	3,557	196	53
Rolette	2,528	2,113	147	33
Sargent	2,651	2,180	135	45
Stark	1,101	990	80	14
Stutsman	2,678	2,084	150	39
Towner	2,772	2,090	155	18
Traill	3,860	2,860	115	44
Walsh	6,479	5,446	255	62
Ward	3,934	2,989	163	34
Wells	2,449	1,990	216	58
Williams	677	450	16	8
Unorganized	750	620	60	19
Total	105,963	84,399	5,276	1,275

VITAL, 1904.

COUNTY	No. Males Living on Farms	No. Females Living on Farms	No. Births	No. Deaths
Barnes	3,345	2,545	121	30
Benson	2,993	2,321	148	36
Billings	590	260	7	6
Bottineau	5,013	3,855	250	44
Burleigh	1,468	1,254	71	24
Cass	6,305	4,826	221	43
Cavalier	5,111	4,328	312	63
Dickey	2,230	1,844	52	20
Eddy	1,168	824	55	10
Emmons	2,400	2,174	137	18
Foster	1,353	920	55	15
Grand Forks	5,457	4,142	200	67
Griggs	2,518	1,822	99	32
Kidder	634	528	37	3
LaMoure	2,331	2,116	189	29
Logan	1,675	1,536	140	24
McHenry	3,178	2,365	133	35
McIntosh	2,168	2,030	207	34
McLean	4,291	3,694	492	69
Mercer	1,120	919	59	29
Morton	2,145	2,044	144	30
Nelson	3,172	2,467	122	37
Oliver	904	704	40	11
Pembina	4,532	3,635	153	61
Pierce	2,850	2,212	242	38
Ramsey	3,519	2,628	171	31
Ransom	2,137	1,774	89	18
Richland	4,614	3,764	227	49
Rolette	2,442	2,036	180	33
Sargent	2,567	2,119	118	37
Stark	1,173	1,097	130	17
Steele	2,393	1,874	99	17
Stutsman	2,539	1,970	130	25
Towner	2,686	1,956	160	33
Traill	4,184	2,959	104	33
Walsh	6,491	5,396	270	68
Ward	6,864	5,269	312	81
Wells	3,047	2,885	272	53
Williams	908	618	40	45
Unorganized	820	590	87	23
Total	115,335	92,300	6,075	1,371

VITAL, 1905.

COUNTY	No. Males Living on Farms	No. Females Living on Farms	No. Births	No. Deaths
Barnes	4,109	3,128	155	80
Benson	3,149	2,306	144	32
Billings	815	519	5	4
Bottineau	6,418	4,819	276	46
Burleigh	1,626	1,334	82	17
Cass	6,436	4,912	176	56
Cavalier	5,530	4,323	283	53
Dickey	1,129	1,761	60	16
Eddy	1,418	934	48	22
Emmons	1,322	1,087	95	23
Foster	1,304	880	62	10
Grand Forks	4,872	3,861	166	35
Griggs	2,060	1,415	73	29
Kidder	706	635	73	1
LaMoure	2,590	2,143	126	39
Logan	1,923	1,766	277	32
McHenry	5,516	4,175	361	175
McIntosh	2,256	2,170	228	36
McKenzie	303	180	8	
McLean	3,663	2,957	357	95
Mercer	1,109	808	106	42
Morton	3,767	3,482	119	63
Nelson	3,059	2,269	77	29
Oliver	1,083	813	85	19
Pembina	4,446	3,609	137	35
Pierce	3,015	2,221	153	27
Ramsey	3,642	2,592	135	25
Ransom	2,621	2,183	99	21
Richland	4,987	4,194	237	57
Rolette	2,054	1,620	83	35
Sargent	2,630	2,125	117	37
Stark	1,227	1,027	121	42
Steele	2,694	1,959	100	23
Stutsman	3,189	2,496	146	28
Towner	2,462	1,890	97	11
Traill	3,852	2,955	117	33
Walsh	6,585	5,561	293	70
Ward	6,678	4,932	350	58
Wells	3,442	3,604	188	42
Williams	1,350	864	41	13
Unorganized	765	450	95	22
Total	121,802	97,031	5,951	1,485

VITAL, 1906.

COUNTY	No. Males Living on Farms	No. Females Living on Farms	No. Births	No. Deaths
Barnes	4,709	3,068	157	31
Benson	2,830	2,030	149	39
Billings	325	269	17	1
Bottineau	4,938	3,763	260	32
Burleigh	1,620	1,415	56	12
Cass	5,989	4,590	187	49
Cavalier	5,410	4,329	254	57
Dickey	2,262	1,904	55	24
Eddy	1,150	819	40	12
Emmons	1,684	1,297	105	13
Foster	1,887	1,269	81	19
Grand Forks	4,937	3,832	149	64
Griggs	2,143	1,420	106	25
Kidder	804	696	48	12
LaMoure	2,740	2,233	138	31
Logan	1,305	1,127	193	33
McHenry	3,607	2,895	226	59
McIntosh	2,087	1,944	181	37
McKenzie	262	202	8	1
McLean	2,243	3,084	240	20
Mercer	972	874	75	18
Morton	3,882	3,733	112	31
Nelson	3,368	2,610	149	48
Oliver	1,137	863	93	22
Pembina	4,225	3,399	130	53
Pierce	3,181	2,509	237	31
Ramsey	3,685	2,597	159	40
Ransom	2,605	2,068	83	27
Richland	4,946	4,157	210	61
Rolette	2,500	1,895	131	26
Sargent	2,654	2,151	121	87
Stark	1,314	1,255	153	53
Steele	2,486	2,122	80	29
Stutsman	3,151	2,717	195	27
Towner	2,031	1,431	81	7
Trall	3,627	2,794	95	29
Walsh	6,335	5,431	269	66
Ward	9,635	7,932	542	112
Wells	3,333	2,711	203	40
Williams	1,165	740	43	7
Unorganized	1,570	1,490	95	22
Total	120,734	97,683	5,906	1,407

FARM LABOR, 1902.

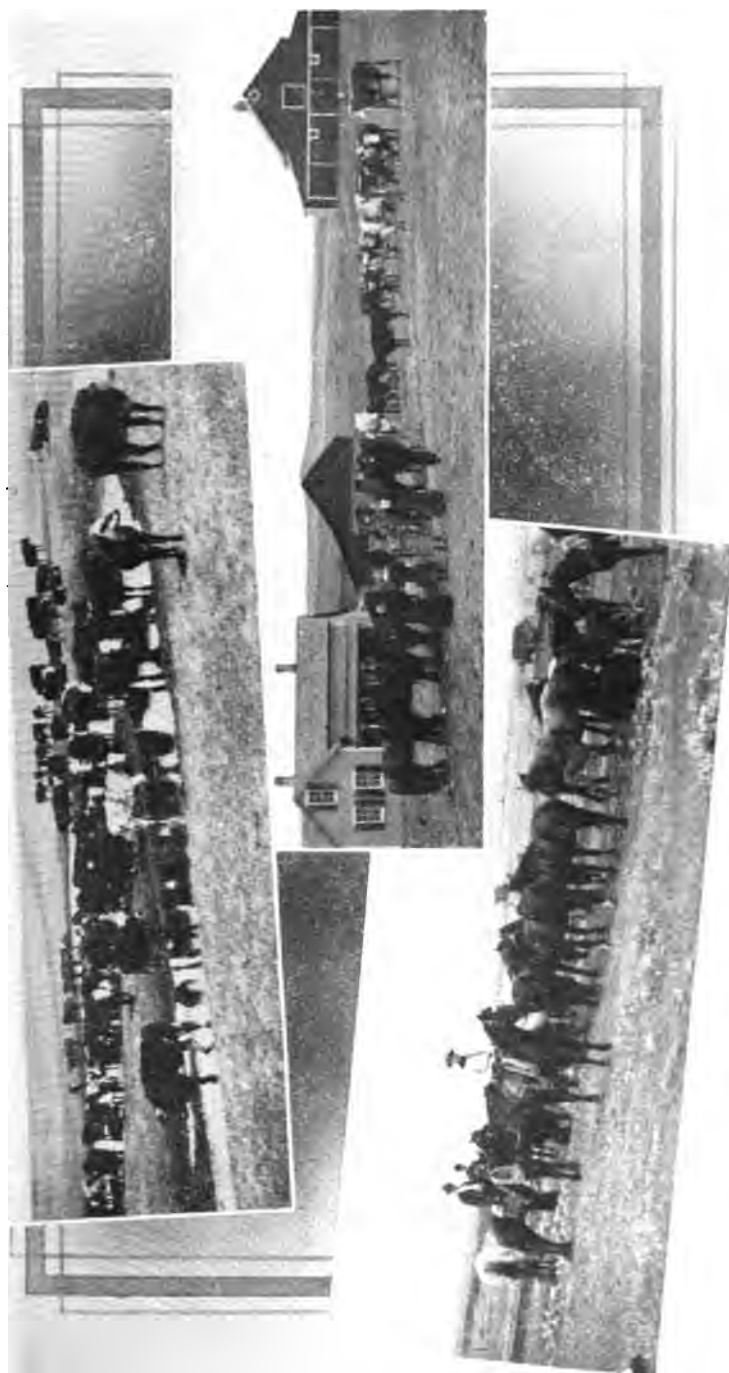
COUNTY	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid per Month	Total Wages Paid
Barnes	919	.....	171	.....	\$ 326,688
Benson	849	\$ 29.00	139	\$ 14.00	281,873
Bottineau	277	25.71	53	10.64	54,826
Burleigh	364	30.00	4	20.00	43,328
Cass	1,883	29.12	418	16.17	767,452
Cavalier	656	32.00	70	13.00	100,750
Dickey	408	25.50	37	8.22	77,991
Eddy	243	25.77	34	13.94	41,558
Emmons	154	21.63	15	.....	27,916
Foster	373	26.00	47	16.25	.....
Grand Forks	1,677	26.00	283	13.00	423,524
Griggs	497	32.74	88	15.75	137,603
Kidder	39	22.70	8	10.33	9,327
LaMoure	665	25.00	46	14.00	102,223
Logan	46	24.84	15	16.00	8,250
McHenry	241	20.00	21	10.00	28,534
McIntosh	48	20.00	13	12.00	7,246
McLean	281	18.00	41	12.00	88,381
Mercer	77	20.00	4	12.00	13,722
Morton	180	.....	15	.....	19,170
Nelson	668	.....	148	.....	497,666
Pembina	1,329	26.00	168	13.00	313,858
Pierce	408	23.40	52	10.28	127,273
Ramsey	894	16.71	124	14.18	225,734
Ransom	510	26.00	81	13.00	129,870
Richland	1,054	15.38	129	9.56	237,066
Rolette	272	26.00	14	12.50	55,695
Sargent	465	26.50	74	11.50	109,260
Stark	59	27.55	4	10.90	11,925
Steele	710	.....	200	.....	120,790
Stutsman	427	29.05	32	12.86	85,926
Towner	568	16.25	74	16.55	136,882
Traill	1,045	25.00	284	12.00	426,730
Walsh	1,083	24.86	167	14.61	.....
Ward	364	26.00	36	10.00	31,272
Wells	226	23.00	55	12.00	50,690
Williams	114	40.00	7	25.00	23,435
Unorganized	220	27.61	22	20.22	51,957
Total	20,293	.....	3,188	.....	\$5,196,381



Shipping Sheep.



Some North Dakota Cattle.



1. Range Cattle. 2. Farm Scene. 3. Bunch of Horses.

1

2

FARM LABOR, 1903.

COUNTY	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid per Month	Total Wages Paid
Barnes	843	.....	151	.....	\$ 308,658
Benson .....	.....	\$ 26.00	.....	\$ 14.50	214,239
Bottineau	469	27.25	104	11.50	68,979
Burleigh	139	25.00	9	12.00	26,652
Cass	1,934	30.00	468	18.00	824,026
Cavalier	924	31.71	111	13.65	172,996
Dickey	401	30.00	42	12.00	78,193
Eddy	252	30.00	26	12.50	64,423
Emmons	73	21.40	8	9.62	18,607
Foster	398	29.00	44	14.00	90,648
Grand Forks	1,788	28.00	378	14.00	430,664
Griggs	638	30.85	138	15.75	170,760
Kidder	104	24.41	9	12.66	14,987
LaMoure	683	30.00	64	12.00	117,160
Logan	70	23.00	27	9.85	7,501
McHenry	270	20.00	27	12.00	34,137
McIntosh	59	20.00	18	10.00	16,220
McLean	280	24.60	24	17.00	43,850
Morton	184	20.00	25	12.00	28,581
Nelson	672	20.00	83	16.00	186,144
Oliver	34	23.00	4	10.00	10,221
Pembina	1,529	25.00	225	15.00	288,183
Pierce	310	22.88	34	22.06	70,358
Ramsey	769	20.00	104	14.80	220,154
Ransom	522	22.00	80	15.00	42,874
Richland	1,188	23.00	128	15.00	311,482
Rolette	196	24.50	13	10.00	52,556
Sargent	613	28.50	136	12.50	137,861
Stark	72	33.50	7	12.60	14,760
Steele	748	29.95	264	16.07	360,971
Stutsman	419	25.21	39	19.36	86,660
Towner	532	17.25	43	12.75	115,309
Traill	1,128	28.00	205	18.00	622,904
Walsh	1,006	22.21	136	19.72	226,429
Ward	462	27.00	51	12.00	59,270
Wells	422	25.00	50	12.00	148,653
Williams	81	20.00	15	10.00	9,742
Unorganized	270	28.30	39	19.70	62,730
Total	20,482	.....	3,329	.....	\$5,758,544

FARM LABOR, 1904.

COUNTY	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid Per Month	Total Wages Paid
Barnes	1,010	.....	264	.....	\$ 481,452
Benson	746	\$ 27.29	143	\$ 14.99	298,144
Billings	235	35.00	18	16.00	64,692
Bottineau	926	32.00	151	15.00	133,120
Burleigh	274	25.50	10	13.00	33,667
Cass	1,891	28.77	470	18.94	933,376
Cavalier	995	28.00	188	17.00	236,378
Dickey	350	27.00	36	13.00	71,313
Eddy	328	30.00	45	12.50	100,829
Emmons	122	31.15	11	14.72	20,526
Foster	307	29.00	44	14.00	84,952
Grand Forks	1,043	29.00	293	17.00	466,106
Griggs	551	32.00	121	16.00	184,382
Kidder	107	25.96	9	11.44	18,054
LaMoure	659	25.00	76	12.00	67,986
Logan	32	21.00	17	12.50	
McHenry	780	25.00	175	16.00	25,625
McIntosh	48	27.00	10	14.00	9,113
McKenzie	56	30.35	3	21.66	15,160
McLean	360	24.91	46	11.00	48,178
Mercer	69	22.50	9	15.00	9,638
Morton	205	26.15	42	12.00	36,857
Nelson	678	30.20	125	13.82	209,150
Oliver	81	23.00	15	9.50	11,628
Pembina	1,339	.....	221	.....	260,245
Pierce	289	31.47	24	12.46	46,497
Ramsey	1,023	17.28	146	14.78	318,878
Ransom	736	22.00	96	15.00	199,596
Richland	647	27.00	120	14.00	204,249
Rolette	289	19.43	27	10.00	60,069
Sargent	508	28.50	98	11.50	130,000
Stark	75	31.75	9	9.60	12,229
Steele	913	.....	290	.....	354,704
Stutsman	525	21.00	49	18.00	116,212
Towner	1,154	30.93	137	13.61	204,265
Traill	1,291	27.00	290	15.00	501,648
Walsh	1,343	.....	166	.....	296,590
Ward	754	33.76	116	8.00	84,283
Wells	539	23.40	91	10.98	172,234
Williams	116	11.24	26	7.00	14,905
Unorganized	290	30.25	37	15.25	63,700
Total	23,684	.....	4,264	.....	\$6,600,603

FARM LABOR, 1905.

COUNTY	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid per Month	Total Wages Paid
Barnes	1,195	\$ 30.00	247	\$ 15.00	\$ 432,690
Benson	652	30.00	167	15.00	345,927
Billings	50	35.00	4	12.50	1,750
Bottineau	1,145	32.00	163	16.00	225,429
Burleigh .....	.....	30.00	.....	18.50	43,220
Cass	1,794	31.19	407	17.01	824,868
Cavalier	998	37.10	156	19.19	254,005
Dickey	451	32.00	60	17.00	93,337
Eddy	267	27.73	37	13.27	69,107
Emmons	111	22.16	17	17.12	32,301
Foster	330	29.05	60	16.61	105,331
Grand Forks	1,817	29.00	364	18.00	535,087
Griggs	622	30.21	126	19.63	234,461
Kidder	106	25.00	14	15.00	2,880
LaMoure	790	40.00	67	20.00	32,940
Logan .....	.....	.....	.....	.....	2,167
McHenry	481	27.00	98	16.00	14,359
McIntosh	48	23.00	10	15.00	7,010
McKenzie	60	30.30	2	10.00	15,610
McLean	218	27.50	37	14.00	73,450
Mercer	43	24.00	6	12.00	7,600
Morton	235	26.00	43	14.00	42,017
Nelson	886	30.50	213	14.00	296,597
Oliver	99	25.00	21	11.50	16,374
Pembina	1,437	27.00	223	15.00	286,025
Pierce .....	.....	.....	.....	.....	86,738
Ramsey	1,145	20.46	163	16.08	392,603
Ransom	836	30.00	107	14.00	215,454
Richland	881	27.50	134	13.50	259,137
Rolette	564	36.94	33	20.97	101,153
Sargent .....	.....	30.00	.....	14.00	170,120
Stark	97	29.50	17	8.00	16,400
Steele	1,040	25.00	374	15.00	364,098
Stutsman	515	32.62	52	21.84	181,816
Towner	1,713	30.59	161	16.09	217,327
Traill	804	28.67	254	15.00	452,084
Walsh	1,062	29.81	198	15.69	302,747
Ward	1,429	25.00	241	20.00	218,820
Wells	1,799	24.60	112	12.50	224,252
Williams	57	37.30	2	14.50	15,493
Unorganized	365	25.00	60	10.00	54,000
Total	26,142	.....	4,450	.....	\$7,266,784

COAL MINES, 1902.

COUNTY	No. Mines Operated	No. Men Employed	No. Tons Mined	Av. Cost per Ton	Tot. Wages Paid
Bottineau	1	3	.....	.....	\$ 285
Burleigh	1	147	87,500	.....	63,958
Emmons	2	8	.....	.....	.....
McLean	6	12	3,100	\$.87	1,065
Morton	7	86	21,173	.....	.....
Stark	42	53	33,088	.62	2,549
Ward	5	20	3,753	.....	4,375
Williams	3	10	1,228	.....	1,450
Unorganized	1	.....	95	.60	.....
Total	68	339	149,937	.....	\$ 73,682

COAL MINES, 1903.

Burleigh	4	115	69,575	\$ 1.00	\$ 34,500
McHenry	1	2	1,500	.75	2,000
McLean	4	14	2,828	1.42	2,150
Morton	8	106	27,630	.....	.....
Stark	42	127	40,270	.69	3,302
Ward	8	64	31,600	1.58	27,058
Williams	6	15	1,225	1.10	1,112
Unorganized	2	.....	300	.62	.....
Total	76	443	174,928	.....	\$ 70,122

COAL MINES, 1904.

Burleigh	6	.....	104,100	\$.94	\$ 39,715
Emmons	1	3	250	1.75	375
McLean	6	29	3,750	1.55	830
Morton	12	134	31,857	.....	.....
Oliver	8	1	398	.....	.....
Stark	45	143	55,840	.75	47,200
Ward	11	100	40,701	.....	6,040
Williams	7	17	2,000	.94	1,330
Unorganized	3	.....	400	.64	.....
Total	99	427	239,296	.....	\$ 95,490

COAL MINES, 1905.

COUNTY	No. Mines	No. Tons Mined	No. Persons Employed	Wages Paid	Cost per Ton Mined
Burleigh	2	4,300	7	\$ 1.23	\$.78
Emmons	2	1,050	10	1.25	1.80
McLean	7	90,467	39	1.05	.90
Morton	8	39,590	13		
Oliver	3	1,510	6	.....	.55
Stark	2	49,800	76	1.43	.97
Ward	14	48,627	42	.97	1.37
Williams	3	2,130	16	.90	1.05
Total	41	237,474	209		

CROP REPORT—ACREAGE, 1906.

COUNTY	Wheat	Oats	Barley	Flax	Rye
Barnes	261,159	48,897	24,382	58,248	1,640
Benson	170,429	30,419	15,694	33,671	225
Billings	1,258	945	100	675	150
Bottineau	310,507	54,519	10,988	66,235	612
Burleigh	38,792	9,902	2,848	13,973	1,675
Cass	398,262	78,766	40,498	58,841	1,480
Cavalier	249,950	52,524	50,243	13,672	631
Dickey	94,305	16,407	18,928	30,827	874
Eddy	82,294	19,750	5,442	26,796	3,538
Emmons	53,509	6,472	8,773	15,276	471
Foster	95,390	21,307	15,425	29,299	5,589
Grand Forks	264,840	59,640	37,061	86,098	98
Griggs	128,319	26,364	12,818	50,962	4,200
Kidder	11,169	3,493	1,910	8,570	2,513
LaMoure	151,404	24,466	8,159	40,057	2,011
Logan	33,949	3,129	6,780	20,927	812
McHenry	168,453	38,686	6,898	58,969	2,088
McIntosh	73,666	3,622	12,208	13,371	652
McKenzie	1,105	2,419	208	1,323	39
McLean	92,550	18,456	2,076	59,452	740
Mercer	44,058	6,695	994	3,818	24
Morton	77,747	18,145	1,447	7,818	97
Nelson	164,513	36,185	17,329	58,657	402
Oliver	17,316	7,880	1,200	5,647	8
Pembina	252,254	49,072	64,325	10,904	483
Pierce	164,672	28,753	7,426	36,983	63
Ramsey	231,560	35,624	25,453	43,178	1,836
Ransom	126,427	34,363	10,367	18,566	806
Richland	244,210	80,886	32,501	37,010	967
Rolette	115,176	23,258	10,686	17,165	242
Sargent	88,170	20,927	15,219	25,689	2,014
Stark	21,600	11,500	450	1,250	800
Steele	178,364	30,521	17,829	35,933	421
Stutsman	158,580	33,380	17,816	65,996	1,521
Towner	170,757	33,612	24,718	40,997	224
Traill	189,473	38,165	22,964	41,231	258
Walsh	267,414	50,447	33,805	41,205	
Ward	282,904	86,296	9,587	149,474	836
Wells	268,298	22,950	16,057	29,440	5,770
Williams	12,008	6,720	459	12,004	48
Unorganized	62,500	27,300	600	4,500	1,500
Total	5,828,308	1,202,862	612,671	1,374,702	48,358

CROP REPORT—ACREAGE, 1906—Continued.

COUNTY	Corn	Speltz	Potatoes	Hay, Millet Hungarian	Br'e Grass
Barnes	2,529	3,160	5,229	1,519	547
Benson	171	23	314	1,906	900
Billings	50	.....	100	.....	20
Bottineau	416	.....	502	296	623
Burleigh	3,941	.....	504	76	23
Cass	57,373	.....	2,041	6,634	2,126
Cavalier	35	.....	622	22	288
Dickey	6,051	.....	553	1,152	332
Eddy	387	2,494	353	1,840	2,028
Emmons	4,194	.....	459	129	179
Foster	523	.....	360	2,280	886
Grand Forks	3,135	.....	1,148	13,612	2,236
Griggs	508	.....	330	3,018	1,160
Kidder	330	.....	173	103	501
LaMoure	1,257	.....	613	2,109	2,104
Logan	468	.....	275	8	.....
McHenry	1,075	.....	1,809	501	528
McIntosh	511	.....	292	.....	.....
McKenzie	346	.....	108	22	1
McLean	548	.....	715	26	33
Mercer	734	.....	163	66	46
Morton	4,755	.....	1,028	1,493	35
Nelson	173	.....	620	653	564
Oliver	1,267	.....	260	264	25
Pembina	814	.....	588	1,397	282
Pierce	280	.....	310	726	536
Ramsey	195	923	647	1,425	745
Ransom	4,515	.....	593	2,381	728
Richland	17,325	.....	1,530	4,099	1,034
Rolette	224	.....	318	32	106
Sargent	5,815	1,000	637	2,720	229
Stark	2,700	.....	600	490	370
Steele	1,690	.....	457	7,010	611
Stutsman	389	.....	1,006	483	675
Towner	93	.....	397	15	390
Traill	8,749	.....	529	6,708	838
Walsh	760	.....	792	10,663	1,027
Ward	459	.....	1,555	821	1,176
Wells	703	.....	469	5,621	1,579
Williams	161	.....	192	64	35
Unorganized	7,100	.....	500	190	32
Total	142,750	7,600	29,691	82,574	25,578

CROP REPORT—ACREAGE, 1906—Continued.

COUNTY	Other Tame Grasses	Roots of all Kinds	Total Acreage
Barnes	30	.....	407,340
Benson	309	4	263,066
Billings	50	30	3,378
Bottineau	432	5	445,135
Burleigh	44	4	71,782
Cass	14,666	18	660,705
Cavalier	372	60	368,419
Dickey	264	5	169,697
Eddy	552	3	145,477
Emmons	9	.....	89,471
Foster	306	.....	171,365
Grand Forks	7,612	91	475,571
Griggs	299	.....	227,978
Kidder	152	6	28,920
LaMoure	374	4	232,555
Logan	3	.....	66,351
McHenry	917	66	279,990
McIntosh .....	.....	.....	104,322
McKenzie	132	22	5,725
McLean .....	.....	42	174,638
Mercer .....	.....	15	56,613
Morton	157	3	112,720
Nelson	617	1	279,714
Oliver	140	23	34,030
Pembina	7,672	17	387,808
Pierce	362	20	240,131
Ramsey	647	4	342,238
Ransom	1,409	1	200,156
Richland	7,178	13	426,753
Rolette	189	9	167,405
Sargent	1,680	9	164,109
Stark	400	10	40,170
Steele	815	.....	273,651
Stutsman	64	3	279,913
Towner	1,620	216	273,041
Trall	7,405	110	316,430
Walsh	3,903	48	410,064
Ward	2,292	86	535,486
Wells	953	22	351,862
Williams	58	12	31,761
Unorganized .....	.....	23	104,245
Total	64,084	1,009	9,420,188

REPORT OF ASSISTANT DAIRY COM- MISSIONER

To W. O. Gilbreath, Commissioner of Agriculture and Labor:

SIR: In compliance with section 2 of the dairy commissioner law, I have the honor to submit the following report for the period beginning April 1, 1905, and ending June 30, 1906.

In tendering this report I feel confident that I can say that the dairy interests of North Dakota have kept pace with the wonderful development of our state along other lines during that period.

I am frank in saying that I have not accomplished all I hoped to when I assumed the duties of the office of assistant dairy commissioner. Not that I have not put my best efforts into the work, but I have found much more to do than I could successfully accomplish.

Dairying is not confined to a few localities as it was a few years ago, but has become quite general over the state.

Printed herewith is a complete list of creameries that operated either all year or a part of the year, beginning with July, 1905, and inclusive of June, 1906. It will be noticed that nearly every county is included in the list and that there are several creameries in most of them.

Realizing that one of the necessities of successful dairying is that a good quality of cream be produced so that creameries can make a good grade of butter, one of my first official acts was to issue a circular on the care of cream. These were sent to all buttermakers in sufficient quantities so that one might be given to each patron.

With many new creameries and patrons who have not been educated to the importance of careful handling of cream it is not surprising that considerable cream of not a high quality is delivered. As our creamery business is now carried on about one-half of the creameries are closed from five to seven months of the year, and at a time when prices received for butter are the highest and when the farmers have the most time to devote to the dairy. During the summer months when the creameries are the most apt to be in operation, butter is at its lowest and when the cost of manufacturing and selling is deducted the returns received by the patrons are so low they sometimes conclude dairying does not pay and drop out. Where creameries are not able to run profitably

for both stock-owner and patron, blame is frequently laid on the manager and all wish a change. Possibly the manager, through an insufficient knowledge of creamery business, has made some mistakes he would not repeat, but a change is made—another inexperienced man is put in charge and more mistakes are made. The office is passed around in this way until the creamery is closed permanently or a capable manager and good buttermaker is secured and then the creamery may be made a success. Only when creameries can be operated the whole year can we expect to secure the most capable, experienced buttermakers, who will get the best results from cream furnished them and assist in instructing patrons to better care of the cream and cows. I do not mean to say that North Dakota has not had good buttermakers, because I believe we have, but we have had many young men, who were strangers to our conditions and not having sufficient age or experience have been unable to give the best advice to patrons and creamery managers or if they did it was not always accepted as readily as it would have been from an older or more experienced man.

While dairying has increased rapidly the number of creameries has increased more rapidly than the supply of cream and I am sorry to say that I find that there are at least twenty-two factories that have been built within the last five years that have been dropped from the yearly published lists because of their not being operated.

They lacked patronage sufficient to operate them profitably. While it must be admitted that creameries have been built in localities where there were not a sufficient number of cows or farmers disposed to deliver cream to them to make it possible to operate them profitably, there is another reason why some have been closed. The time has passed when the number of creameries in a county or state is a fair criterion of the amount of dairying done in that territory. Referring to the reports of butter made in creameries it will be seen that one plant may manufacture as much butter as several reasonably successful creameries.

This condition is brought about by shipping cream to what is usually termed a central creamery. It is shipping cream to these plants located either in our own state or outside that has closed some of our creameries.

So prevalent has the idea become that North Dakota is becoming a dairy state that creamery promoters have found this a fertile field for their operations.

While I am a firm believer in the desirability of patronizing local creameries rather than any plan that requires long hauls of cream by wagon or rail to a central point I do think that if we consider the number of creameries standing idle we must admit that we have a sufficient number for the present. All the cream-

eries that operated during the 'past year had cream shipped to them with the exception of a few whole milk plants in the western part of the state or in localities where the factories are located away from the railroads. To operate successfully and economically so that patrons can receive fair returns for their product a creamery should manufacture at least 60,000 pounds of butter a year. When we get this amount divided among a number of plants the cost of manufacturing is too high and leaves a deficiency which must be taken from the price received for the butter or from the owners of the creamery. The result either way is unsatisfactory, discouraging and harmful to the dairy industry.

While many argue that farmers will not go into dairying until a market is established near them in the form of a creamery, it would appear that the poorly patronized summer running factories do not encourage the industry to any great degree. True, many who have cows and start patronizing a local plant, ship their cream to creameries that are operating when the home plant closes and if it can be shown that in the end that building the creamery does stimulate dairying it may be money well spent. The chief cause for complaint is that in nearly every instance the creamery promoters ask nearly double for a creamery what it should cost and when the creamery is built those who become the owners in looking over their new purchase find they have paid too much and frequently find that there are not sufficient cows in the neighborhood to operate the plant successfully.

Knowing that considerable of our butter was not selling at top prices and wanting to know more of the requirements of the markets, I wrote to one of the large handlers of our butter in New York and received the following reply:

NEW YORK CITY, Aug. 8, 1906.

Mr. R. F. Flint, Assistant Dairy Commissioner, Bismarck, N. D.:

DEAR SIR: At your suggestion we write you on the subject of the requirements of this market, in regard to creamery butter.

In the past quality was not scrutinized as closely as at the present time, but the disastrous results of last year's speculation caused dealers to give closer attention to the quality, while the enforcement of the adulteration law regarding the moisture contents, has also worked in the same direction, as a result the demand this year has been confined more closely to fine grades than ever before, and we have used every effort to impress upon our shippers the necessity of educating their patrons up to the proper care of their cream, for unless they can deliver it in the proper condition it is absolutely impossible to produce a fine article, and we are convinced that the carelessness of a few patrons has often been responsible for the loss in quality of an entire shipment.

If the secretary or manager would support the buttermaker and permit him to either reject poor or tainted cream, or accept it at lower price, so that they could make it up separately, we believe this evil would be quickly eradicated, and as we believe that you are interested officially, we sincerely hope this information will be of some service.

Hauling cream long distances in the hot weather is naturally a difficult problem for the buttermaker, but there is no justice in making a careful patron suffer for the carelessness of others.

It is encouraging to find that our suggestions are received by the buttermakers in general in a friendly spirit, but naturally their authority is restricted, and they are powerless to reject poor cream should it come from influential patrons, therefore we dwell upon the fact that the manager or secretary must also be interested, and give the buttermaker their support in such matters.

Another growing evil is the prevalence of mold on the inside of the tubs, which usually occurs every year as soon as the muggy weather sets in. This may be due to several reasons such as sappy staves in the tubs, or improper soaking, or the custom of many buttermakers of steaming their tubs, which may bring the microbes to life, and coming in contact with the parchment paper linings develop mold.

We know of instances where butter would strip clean one day and the following week mold spots had already developed, which when once it forms, penetrates through the paper lining into the butter and cannot be arrested.

The only remedy we know of is to use a heavy parchment paper, and then follow the instruction on the inclosed slip which we mail to all our shippers at this season of the year, and if these rules are adopted we rarely find any trace of mold.

You must pardon us for taking up your valuable time, but hope that our remarks will be of some service as you undoubtedly come in personal contact with the majority of buttermakers in your territory and some of the seed may fall on fertile ground, and if so it will not go to waste.

We thank you very much for the opportunity of writing and if we can be of service to you at any time, we will be pleased to have you command us.

Yours very respectfully,

What is said in this letter is undoubtedly true. Prices on the best quality of butter are constantly being raised over that of the lower grades and, no doubt, will continue to widen. During the early part of 1906 there was as much as four cents between the first and second grades and it is largely the fault of a few patrons at each creamery who, by their indifference in caring for and delivering cream lowers the quality of the whole make at the creamery.

CREAM GRADING.

It is manifestly unfair that a patron who takes good care of his cream, delivers it often and in prime condition should receive no more than the slovenly, indifferent one who delivers cream that is only fit to make the lowest grade of butter, nevertheless, they are receiving the same price where both are patrons of the same creamery.

The writer wrote to all the creameries along one branch of road, where the creameries were naturally competitors, asking if he could aid them in establishing a grading system. Only one seemed willing to take up this work. A week was spent at this creamery and a system of two grades was established. A very small per cent of the cream received that week was of the quality that graded number one. Those who had that grade were paid two cents more than the price paid for number two, those who had first grade were pleased while those who had second expressed a determination to try and bring a better grade next trip. Two weeks after I received a letter from the manager saying, "My report last week shows 3,027 pounds No. 1 butterfat for which was paid \$484.62, 375 pounds No. 2 butterfat for which was paid \$52.27." He also added that the results of grading were very gratifying. Later on I visited this creamery again and found that they had practically been compelled to discontinue grading because competitors had paid prices for second grade cream equal to that paid at the creamery for first. Not because that was their price, but to create dissatisfaction among the patrons. I am still convinced that grading cream and paying different prices is the quickest method of bringing about an improvement in the quality of cream, but until some basis is fixed that will be satisfactory to all buyers and they are compelled by a law, backed up by enough inspectors so there is a possibility of enforcing it I see no assurance that it can be made successful only perhaps in certain sections where competition is not too keen.

ICE CREAM.

Several creameries have added ice cream machinery to their plants and are turning out a very good wholesome quality of this frozen delicacy and the addition of this branch seems to have proven quite profitable. In order to secure sweet cream the creameries usually offer from one to four cents per pound of butterfat over the amount paid for that in the sour cream and as the bulk of the ice cream is made during the summer months it adds materially to the price paid those patrons who deliver good cream and relieves the market of a little butter. Indications are that this side line will become more generally practiced by the creameries as there seems to be an active demand for ice

cream, and I can see no reason why it cannot be manufactured more economically and as good in quality as in an exclusive ice cream factory.

CHEESE FACTORIES.

While we are making excellent progress in butter production we do not seem to develop as a cheese producing state.

The reason for this seems to lie in the fact that the farms are large and the population necessarily scattering and as it would be necessary to deliver milk every morning to a cheese factory the time required for this work seems to be a drawback to successful operation. Then again most farmers wish to raise their calves and the skim milk is more valuable for this than whey.

The only cheese factory that I have been able to locate during the past two years is the Rolla Cheese Factory, Rolla, Rolette county, and I have no figures from this one.

No doubt, the passing of the fifteen cheese factories recorded from this office ten years ago, is only temporary and as the state gets a denser population they will spring into popularity again.

With practically all our cheese shipped in from neighboring states it would seem that some sections might take up this branch of dairying profitably.

TESTING DAIRY HERDS.

As one of the duties of the office is to assist dairymen in testing their herds, I took up the proposition with some of the patrons of different creameries, the result of which was co-operating with patrons and buttermakers in beginning a test with ten herds and a total of 150 cows. At the present writing some of the herds have dropped out but the owners of the balance seem to appreciate the benefits to be derived from such work and are still carrying on their part which consists in weighing the milk from each cow, taking samples during the month and keeping such records in regard to the herds as they can. The samples are carried to the buttermaker and there tested. The milk sheets and the tests are forwarded to this office where the figuring is done and records kept.

It is hoped some useful information, not only for the farmers who keep the cows tested, but for the general dairy public, will be obtained when the year's work is completed. This is, I believe, the first work of this kind ever carried on to any extent in our state outside of the experimental stations. The records would be more valuable if a person qualified for the work could spend a portion of his time each month at the farms where the herds were kept and note carefully the kinds and amount of

feed, and the care given each cow, the breed, conformation and disposition of each animal in the test.

This, I cannot find time to do as I should like and must leave the more thorough work to a time when the office has more men for the dairy work.

CREAMERY REPORTS.

The law requires creameries to make a "full and accurate report" on blanks sent out from this office of all the business done each month.

To all the creameries this was considerable of a change from the law in force prior to July 1, 1905, which only required yearly reports and I have experienced considerable difficulty in getting "full and accurate reports."

Many secretaries or managers had a poor system of keeping accounts and could not make correct reports, while others refused at first. Part came in incomplete and inaccurate and were of little value for statistics, some were sent back for correction, some corrected in the office when figures given were sufficient to give a basis to figure from and in a few instances information was supplied. Many came in promptly and complete and I believe are correct. I am fully convinced from my observations at the creameries that those who complied with this requirement are the best managed plants we have.

As time passes I find it easier to get the reports and believe another year will show a considerably greater number of creameries sending them complete. While the work of securing these reports has been somewhat troublesome and vexatious the enforcement of this feature of the law seems desirable because to make a correct report requires a better system of book-keeping on the part of those intrusted with the creamery accounts. One creamery sent in a report in which there appeared to be an inaccuracy. The report was sent back for correction and when it was returned to me the manager wrote that the report was correct as sent in and added "it only shows that I have not been giving very close attention to my business and in making this report I have found where I have been losing."

Failing to make reports, as a rule, shows quite plainly that there is some reason why these creameries should be compelled to do so, as almost invariably there is something about the methods of conducting the business that is detrimental to the creamery's and patrons' best interests.

The assessor's reports for 1906 show that 125,337 cows were used for dairy purposes. The same reports show that 8,067,303 pounds of butter was made in families and from the complete creamery reports and a conservative estimate made of those that are not complete it appears that 3,633,294 pounds of butter

was made in the creameries making a total of 11,700,597 pounds. This would make an average of 94 pounds of butter per cow. Either a better record is kept of the pounds of butter made at creameries or else the cows owned by dairymen, who patronize them, are better, for by taking the number of cows reported as patronizing each of the creameries having license numbers one and two, which are whole milk plants, and the number of patrons and cows much more constant than at hand separator creameries and we find the average per cow is 152 pounds at creamery number 1 and 155 pounds at creamery number 2.

The following report is made up from the reports of creameries that have operated all year and have sent in complete, or nearly complete, reports each month.



Aberdeen Angus.



Mortgage Lifters,

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REPORT OF CREAMERIES.

Location of Creamery	License No.	Pounds Milk Received	Pounds Cream Received	Pounds Butterfat	Pounds Butter Made	Total Money Paid Patrons	Average Price Per Pound for Butterfat
Youngtown.....	1	1,859,622	.....	75,900	94,611	\$17,270.62	\$ 22.8
New Salem.....	2	1,918,175	.....	72,056	89,871	16,219.90	22.5
Bluegrass.....	3	1,292,452	3,350	55,260	61,245	10,799.59	19.5
Rosebud.....	4	1,137,183	.....	43,826	54,521	9,062.09	20.7
Hebron.....	5	516,327	180,606	67,089	77,356	11,870.85	17.7
Heilbron.....	6	1,351,677	103,388	79,157	90,114	13,428.87	16.9
Carrington.....	8	3,611	126,636	31,385	38,818	5,712.26	18.2
Judson.....	14	1,058,982	705	39,482	47,942	7,945.13	20.1
Dawson.....	15	.....	432,896	132,174	154,415	24,379.82	18.4
Steele.....	16	.....	222,732	61,140	69,344	11,239.54	18.4
Wyndmere.....	19	.....	357,405	121,108	142,078	23,168.20	19.1
Oakes.....	20	.....	1,007,854	283,962	340,978	52,120.81	18.4
Towner.....	25	12,167	108,659	31,655	38,139	6,028.74	19.1
Valley City.....	30	.....	112,770	28,259	34,083	5,726.46	20.3
Kulm.....	31	.....	.....	98,965	117,251	16,899.84	17.1
LaMoure.....	32	.....	357,856	88,694	100,733	16,111.69	18.2
Hannover.....	34	756,222	60,372	41,773	50,785	7,572.90	17.7
Center.....	35	660,690	76,870	41,873	48,804	7,747.25	18.5
Fargo.....	38	.....	136,583	41,508	50,671	8,068.47	19.5
Forman.....	40	.....	146,007	50,674	59,184	10,489.04	20.7
Lisbon.....	41	.....	163,404	49,089	57,130	7,711.66	17.7
Edgley.....	42	.....	141,752	37,722	41,948	6,840.84	18.1
Hamble.....	43	163,751	173,232	55,732	64,268	10,676.63	19.1
Kindred.....	44	.....	84,769	24,340	29,173	3,972.51	16.3
Kathryn.....	45	.....	300,094	84,301	96,786	15,456.19	18.3

REPORT OF CREAMERIES—Continued.

Location of Creamery	License No.	Pounds Milk Received	Pounds Cream Received	Pounds Butterfat	Pounds Butter Made	Total Money Paid Patrons	Average Price Per Pound for Butterfat
Tower City.....	46	.....	71,433	18,855	21,933	\$ 3,723.76	19.8
Oberon.....	49	.....	105,884	27,921	31,865	4,828.33	17.3
Havana.....	50	353,520	424,662	134,807	149,521	26,289.30	19.5
*Grand Forks.....	54	.....	411,286	129,842	147,134	25,552.88	19.7
Ellendale.....	55	.....	400,901	129,892	148,155	23,094.25	17.7
Minot.....	58	.....	177,503	52,531	61,579	9,897.83	18.8
Gackle.....	60	10,628	280,718	78,745	90,946	13,775.17	17.5
Marion.....	..	.....	69,285	20,288	23,580	3,871.34	19.1
Total.....		11,195,007	6,222,622	2,330,033	2,724,971	\$438,360.86	

* Only ten months business reported.

LIST OF NORTH DAKOTA CREAMERIES.

No.	County	Post Office of Secy. or Mgr.	NAME OF CREAMERY
1	Barnes	Fingal	Fingal Co-operative Creamery Association.
2	Barnes	Kathryn	Kathryn Creamery Company.
3	Barnes	Valley City	Valley City Creamery.
4	Benson	Maddock	Maddock Co-operative Creamery Company.
5	Benson	Oberon	Oberon Co-operative Creamery.
6	Benson	York	York Creamery Association.
7	Bottineau	Bottineau	Bottineau Farmers' Creamery Company.
8	Bottineau	Willow City	Farmers' Creamery Company.
9	Burleigh	Bismarck	Missouri River Produce Company.
10	Cass	Davenport	Davenport Co-operative Creamery Company.
11	Cass	Erie	Erie Creamery Company.
12	Cass	Hunter	Hunter Creamery Association.
13	Cass	Kindred	Kindred Creamery Association.
14	Cass	Fargo	Kneer's Creamery.
15	Cass	Leonard	Leonard Creamery Company.
16	Cass	Tower City	Tower City Creamery Company.
17	Dickey	Ellendale	Ellendale Creamery Company.
18	Dickey	Forbes	Forbes Creamery Company.
19	Dickey	Oakes	North American Storage Company.
20	Eddy	New Rockford	New Rockford Creamery Company.
21	Foster	Carrington	Carrington Creamery Company.
22	Foster	McHenry	McHenry Co-operative Creamery.
23	Grand Forks	Grand Forks	Grand Forks Central Creamery Company.
24	Grand Forks	Larimore	Larimore Creamery Company.
25	Kidder	Dawson	Dawson Creamery Company.
26	Kidder	Steele	Steele Creamery Company.
27	LaMoure	Edgeley	Edgeley Creamery Company.
28	LaMoure	Kulm	Kulm Creamery Company.
29	LaMoure	LaMoure	LaMoure Creamery Company.
30	LaMoure	Marion	Marion Creamery Company.
31	Logan	Gackel	Finnish Creamery Company.
32	Logan	Napoleon	Napoleon Creamery Company.
33	McHenry	Balfour	Balfour Co-operative Creamery Association.
34	McHenry	Berwick	Berwick Creamery Company.
35	McHenry	Granville	Granville Creamery Association.
36	McHenry	Towner	Towner Creamery Company.
37	McHenry	Velva	Velva Produce Company.
38	McIntosh	Lehr	North American Storage Company.
39	McIntosh	Wishek	Wishek Creamery Association.
40	McLean	Denhoff	Denhoff Creamery Company.
41	Morton	New Salem	Blue Grass Co-operative Creamery Company.
42	Morton	Judson	Judson Creamery Company.
43	Morton	Youngstown	Garfield Creamery Company.
44	Morton	Glen Ullin	Glen Ullin Creamery Company.
45	Morton	Hebron	Hebron Creamery Company.
46	Morton	Hebron	Heilbron Creamery Company.
47	Morton	New Salem	New Salem Butter Manufacturing Company.
48	Morton	Rosebud	Rosebud Creamery Company.
49	Morton	Leipzig	Leipzig Creamery Company.
50	Oliver	Center	Center Creamery Association.
51	Oliver	Hannover	Hannover Creamery Company.
52	Ramsey	Churches Ferry	Churches Ferry Creamery Association.
53	Ramsey	Crary	Crary Creamery Company.
54	Ramsey	Penn	Farmers' Co-operative Creamery Association.
55	Ramsey	Starkweather	Starkweather Creamery Company.
56	Ransom	Lisbon	Lisbon Creamery Company.
57	Ransom	McLeod	Sandoun Creamery Company.
58	Ransom	Sheldon	Sheldon Creamery Company.
59	Richland	Abercrombie	Abercrombie Creamery Company.
60	Richland	Barney	Barney Creamery Company.
61	Richland	Wahpeton	Ideal Cold Storage Company.
62	Richland	Walcott	Walcott Creamery Company.
63	Richland	Wyndmere	Wyndmere Creamery Company.
64	Rolette	Dunseith	Dunseith Creamery Company.
65	Sargent	Foreman	Foreman Creamery Company.
66	Sargent	Hample	Hample Creamery Company.
67	Sargent	Havana	Powers Brothers.
68	Sargent	Rutland	Rutland Creamery Company.
69	Stark	Richardton	Springville Creamery Company.
70	Stutsman	Cleveland	Cleveland Co-operative Creamery Company.
71	Stutsman	Jamestown	Ideal Cold Storage Company.
72	Stutsman	Medina	Medina Creamery Company.
73	Stutsman	Streeter	Streeter Creamery Company.
74	Towner	Cando	Gando Creamery Company.
75	Towner	Perth	Perth Creamery Company.
76	Trall	Belmont	Farmers' Co-operative Creamery Company.
77	Walsh	Grafton	Grafton Creamery Company.
78	Ward	Minot	Minot Central Creamery.
79	Wells	Bowdon	Bowdon Creamery Company.
80	Wells	Sykeston	Sykeston Creamery Company.

FINANCIAL STATEMENT.

Statement of receipts and expenditures from April 1st, 1905,
une 30th, 1906:

RECEIPTS.

Balance carried over for expense	\$ 380.21
Balance carried over for salary	300.00
State appropriation for two years	2,000.00
Received for creamery licenses from July 1st, 1905, to June 30th, 1906	600.00
Total	<u>\$3,280.21</u>

EXPENDITURES.

Railroad fare	\$ 20.05
Cry. Package Mfg. Co., supplies	44.58
Material Case	7.00
Freight and express	3.94
Filing cabinet	3.50
Scales	5.40
Photographic views	3.50
Speakers' expense at dairy meeting	12.00
Postage	106.55
Stationary and printing	153.50
Hotel	379.25
Livery and bus	170.25
Exchange on license checks	1.50
Miscellaneous, including telegraph and tele- phone	4.65
Fifteen months salary	1,500.00
Total	<u>\$ 2,415.67</u>

RECOMMENDATIONS.

While our dairy law in many respects in my estimation is excellent I believe some changes should be made.

As our dairy law now reads the legal test bottle for cream must have a capacity of six cubic centimeters of mercury at a temperature of 60 degrees Fahrenheit between "zero" and thirty on the graduated scale. In my opinion this should read 10 cubic centimeters between "zero" and fifty on the graduated scale and instead of having 18 cubic centimeter pipettes the legal measure for testing cream it should be 18 grams.

I find that many of the creameries have adopted these measures and all should be required to do likewise. To over-read the test should be just as much a misdemeanor as under-reading it.

Our law should define what impure and unwholesome cream is

and make it a misdemeanor to offer for sale, buy or manufacture into creamery butter such cream, and having in a patron's or creameryman's possession should be evidence that it was intended for sale or manufacture into butter.

As our law now reads much more effective work, by an inspector, can be done at the farms of the creamery patrons toward improving the quality of cream than at the creameries and I have given as much of my time to inspecting dairy premises as I could, not as a police officer but as an instructor backed by the authority of the law.

This work is necessarily slow as it is difficult to visit over twenty to thirty patrons in a day. Much good has resulted from this work and creamery men demand more than one man can possibly accomplish with the other duties of the office.

The number of cows used for dairy purposes has increased 15 per cent in two years, persons traveling over the state cannot help but have noticed the increased number of cream cans loaded or unloaded at stations or standing on the platforms. Hand separator salesmen report their sales of machines have increased fifty per cent this year over 1905.

Taking into consideration the growth of the dairy interests, the necessity of instruction for patrons, and the demand for assistance from dairy and creamery men, it would seem to me to be a wise thing to appropriate a sufficient sum so that another assistant could be kept at this work.

Respectfully submitted,

R. F. FLINT,

Assistant Dairy Commissioner.



NAVIGATION ON THE MISSOURI

1. Steamboats Washburn and Weston Coaling. 2. Steamer Washburn Coaling at Mannhaven. 3. River Bank Near Mannhaven, Showing Coal

TENTH BIENNIAL REPORT

OF THE

Commissioner of Agriculture
and Labor

TO THE

GOVERNOR OF NORTH DAKOTA

For the Term Ending June 30, 1908

BISMARCK, N. D.
TRIBUNE, PRINTERS AND BINDERS
1908

LETTER OF TRANSMITTAL

STATE OF NORTH DAKOTA,
Office of the Commissioner of Agriculture and Labor,
Bismarck, November 1, 1908.

Hon. John Burke, Governor of the State of North Dakota:

I have the honor to herewith transmit, and through you, to the legislature, the tenth biennial report of the commissioner of agriculture and labor.

Respectfully submitted,

W. C. GILBREATH,
Commissioner.

Date	Description	Amount	Balance
1/1/20	Opening Balance		100.00
1/5/20	Deposit	25.00	125.00
1/10/20	Withdrawal	10.00	115.00
1/15/20	Deposit	50.00	165.00
1/20/20	Withdrawal	30.00	135.00
1/25/20	Deposit	15.00	150.00
1/30/20	Withdrawal	20.00	130.00
2/5/20	Deposit	40.00	170.00
2/10/20	Withdrawal	15.00	155.00
2/15/20	Deposit	30.00	185.00
2/20/20	Withdrawal	25.00	160.00
2/25/20	Deposit	10.00	170.00
2/28/20	Withdrawal	15.00	155.00
3/5/20	Deposit	20.00	175.00
3/10/20	Withdrawal	10.00	165.00
3/15/20	Deposit	35.00	200.00
3/20/20	Withdrawal	20.00	180.00
3/25/20	Deposit	15.00	195.00
3/30/20	Withdrawal	10.00	185.00
4/5/20	Deposit	25.00	210.00
4/10/20	Withdrawal	15.00	195.00
4/15/20	Deposit	30.00	225.00
4/20/20	Withdrawal	20.00	205.00
4/25/20	Deposit	10.00	215.00
4/30/20	Withdrawal	15.00	200.00
5/5/20	Deposit	20.00	220.00
5/10/20	Withdrawal	10.00	210.00
5/15/20	Deposit	35.00	245.00
5/20/20	Withdrawal	20.00	225.00
5/25/20	Deposit	15.00	240.00
5/30/20	Withdrawal	10.00	230.00
6/5/20	Deposit	25.00	255.00
6/10/20	Withdrawal	15.00	240.00
6/15/20	Deposit	30.00	270.00
6/20/20	Withdrawal	20.00	250.00
6/25/20	Deposit	10.00	260.00
6/30/20	Withdrawal	15.00	245.00
7/5/20	Deposit	20.00	265.00
7/10/20	Withdrawal	10.00	255.00
7/15/20	Deposit	35.00	290.00
7/20/20	Withdrawal	20.00	270.00
7/25/20	Deposit	15.00	285.00
7/30/20	Withdrawal	10.00	275.00
8/5/20	Deposit	25.00	300.00
8/10/20	Withdrawal	15.00	285.00
8/15/20	Deposit	30.00	315.00
8/20/20	Withdrawal	20.00	295.00
8/25/20	Deposit	10.00	305.00
8/30/20	Withdrawal	15.00	290.00
9/5/20	Deposit	20.00	310.00
9/10/20	Withdrawal	10.00	300.00
9/15/20	Deposit	35.00	335.00
9/20/20	Withdrawal	20.00	315.00
9/25/20	Deposit	15.00	330.00
9/30/20	Withdrawal	10.00	320.00
10/5/20	Deposit	25.00	345.00
10/10/20	Withdrawal	15.00	330.00
10/15/20	Deposit	30.00	360.00
10/20/20	Withdrawal	20.00	340.00
10/25/20	Deposit	10.00	350.00
10/30/20	Withdrawal	15.00	335.00
11/5/20	Deposit	20.00	355.00
11/10/20	Withdrawal	10.00	345.00
11/15/20	Deposit	35.00	380.00
11/20/20	Withdrawal	20.00	360.00
11/25/20	Deposit	15.00	375.00
11/30/20	Withdrawal	10.00	365.00
12/5/20	Deposit	25.00	390.00
12/10/20	Withdrawal	15.00	375.00
12/15/20	Deposit	30.00	405.00
12/20/20	Withdrawal	20.00	385.00
12/25/20	Deposit	10.00	395.00
12/30/20	Withdrawal	15.00	380.00
1/1/21	Opening Balance		380.00

REPORT

Much care has been exercised in an effort to obtain accuracy in statistics, but the results are not entirely satisfactory. It is, however, the best that can be accomplished under the present system of gathering them. The assessors are required by law to carefully finish up their books before returning them to the county auditors. These latter officers seldom have time to go over the assessors' work just when their books are turned in, and as a result discrepancies frequently creep into the county auditors' reports to this office. In many instances considerable correspondence has been exchanged with auditors of various counties with a view to ascertaining the cause of irregularities, and they invariably have attributed the source of all discrepancies to the assessors, who have failed to turn in sufficient and accurate data. Assessors assert in many instances that these inaccuracies are due to the farmers' unwillingness to supply sufficient information.

Farmers apparently have conceived the idea that by giving a full and complete statement to the assessors of all grain and stock raised by them will have a depressing effect upon the market and tend to lessen the price of what they have to sell. They overlook the fact that this tendency to minimize the volume of their products or failure to render a just and true account of what they actually produce, has the effect of reducing the price of their lands, retards immigration and militates against the state's growth and prosperity. The mere concealment of the facts from the assessors can have no effect upon the market, as the grain and stock statistics published by this department are at least one and a half years late, and therefore could have no bearing whatever upon the selling price of these commodities. If these statistics are valuable, and no doubt they are, to those seeking new homes, they should be accurate and reliable. The commission men of the great centers, large grain dealers and manipulators, as well as the owners of packing houses and exporters, through their paid agents, who are located in almost every city, town and hamlet to gather and collate the prospective as well as the actual production of the different kinds of products produced on the farm, have knowledge of the annual yield in this state. They come very near absolutely knowing what every farmer will raise and the probable amount he will sell on the market. It is not this class of men who send to this department for information as to the amount of the different kinds of grain produced in each county and the aggregate of the entire state, for they already have it a year in advance

of this department, but it is those who live in other states who are dissatisfied with their environments, discontented with exorbitant rentals and who wish to secure homes and improve their financial conditions—this is the class of people who want to know in which county to locate, if they do come; and the only evidence they have as a guide is the statistics furnished by the state's statistician. They want to go to that county which produces the greatest average yield of all the cereals, as well as the most stock. Therefore, to conceal the actual facts and prevent a correct publication of the grain raised in any given county, not only works a detriment to the farmer and landowner, but prevents an increase in the value of real estate, and retards immigration to the county. The majority of new settlers are going to those counties which show the greatest growth and where the average yield has been the largest.

Sections 129 and 133 of the Revised Codes, 1905, provide:

"PENALTY FOR OBSTRUCTING COMMISSIONER. Any person who wilfully impedes or obstructs the commissioner in the full and free performance of his duties shall be guilty of a misdemeanor, and upon conviction shall be punishable by a fine of not less than ten or more than fifty dollars, or by imprisonment of not less than seven nor more than thirty days in the county jail, or by both. The refusal or neglect of any person for himself or for any person, firm, company or corporation of which he is a member, or agent, to furnish the information or statistical statement required to be furnished to assessors, shall be construed to be a violation of the provisions of this section, and it is hereby made the duty of the county auditor to report such violation with the names and postoffice address and place of residence of the violator as furnished him by the assessor to the state's attorney for the county in which such violation occurred, and the state's attorney shall forthwith proceed to enforce the penalty provided in this section against such persons; and he is hereby authorized to subpoena the assessor and such other witnesses as may be necessary, and to introduce the assessor's returns in evidence."

"STATE STATISTICIAN. The commissioner of agriculture and labor shall be the state statistician. It shall be his duty to obtain from assessors and other officers of the organized counties of the state, and to collate and prepare in tabulated form for reference, statistics showing the assessed valuation of all real and personal property, the acreage and yield of all kinds of grain and tame grasses; the number of horses, cattle, sheep and other live stock, and other information pertaining to and showing the condition of the growth, development and resources of the state by counties."

"SECTION 1340. DUTY OF STATE STATISTICIAN. The state statistician is hereby required to carry into effect the provisions of the going sections relating to the collection and compilation and of the statistical data therein mentioned, and he shall cause

the returns when received to be arranged, classified, and published in the best and most convenient manner in order to exhibit the annual growth and development of each county in the state."

"SECTION 1338. PENALTY FOR NEGLECT OR REFUSAL. Any assessor or county auditor who shall wilfully neglect or refuse in whole or in part to perform the duties required in the foregoing sections, shall be guilty of a misdemeanor, and upon conviction thereof shall be fined in a sum not less than twenty nor more than one hundred dollars."

The objection to this section is that prior to the time the county auditors make their report the assessors have filed theirs, received compensation for the services they performed and discharged, and if upon the examination of these reports they are found to contain gross and palpable errors, the assessor is out and beyond the control of the county auditor. The county auditor is satisfied that the returns are incorrect, but he is powerless to cause a re-assessment and unable, for lack of time, to make a personal investigation to secure correct data, and is, therefore, left with two alternatives, either to change the wrong figures or to compile them as he finds them.

As to the correctness of the foregoing, the letters of a few of the county auditors are herewith appended. It would occupy too much space to publish all of them, but the following sufficiently explain the existing conditions:

"Sherbrooke, N. D., March 10, 1908.

"W. C. Gilbreath, Bismarck, N. D.:

"DEAR SIR: I am in receipt of your letter of the 4th inst., regarding farm statistics as reported for 1907. The only explanation that I have to offer for the discrepancy in acreage is that the assessors' returns are at fault. I am satisfied that the assessors attempted to do their duty in gathering farm statistics, but in many cases were misled by the farmers. At the time the assessment was made last year, I understand that the Society of Equity was preaching to the farmers to withhold their farm statistics from all parties, and there is no question but what a number reported the acreage of grain in crop or to be sown below the actual figures. As to the number of farms reported, that is evidently an error, for, as near as I can estimate them, there should be in the neighborhood of 850. I am sorry that we are unable to furnish your office with more accurate figures on farm statistics.

"Yours truly,

"S. McPHERSON,
Auditor."

"Fargo, N. D., February 28, 1908.

"Mr. W. C. Gilbreath, Commissioner of Agriculture and Labor,
Bismarck, N. D.:

"DEAR SIR: I wish to acknowledge receipt of your letter of the 27th inst., asking for an explanation or probable cause of the discrepancy in statistical reports for 1907. In reply thereto, will state that all of the assessors' records were forwarded to your office at your request.

"As to probable cause of discrepancy, will say that I consider the reports as turned in by the assessors nothing more than a farce, not being reliable in any detail. In most cases, the assessors have done the best they could with such information as they were able to get. In some cases the assessors are no more anxious to return information in this matter than the farmers are to give it. I think that the present system falls far short of securing the results intended. I know of no way to verify my recapitulation, as I have not the original assessors' returns.

"Respectfully yours,

"ARTHUR G. LEWIS,
County Auditor."

"Valley City, N. D.

"Mr. W. C. Gilbreath, Commissioner of Agriculture, Bismarck,
N. D.:

"DEAR SIR: Referring to your letter, will say that it seems a custom among the farmers of this county to evade the answering of these questions, and when they do they try and make it as conflicting as possible, so as not to give any more light for the general public in regard to acreage of grain sown as in their mind it seems to be a benefit for the board of trade, which they hope to keep in the dark as much as possible.

"I have referred the assessors to the law in regard to these cases, and they say it is impossible to get a correct report from any one farmer, law or no law; therefore, the assessors have done their best under these conditions.

"I realize that this makes a conflicting report, but cannot seem to right it, as these reports are certified to me under oath of the assessor, and I can only put down for the total what has been certified to me.

"Hoping this is satisfactory, I am,

"Truly yours,

"C. W. NELSON,
Auditor of Barnes."



DAIRYING IN NORTH DAKOTA

1. John Christiansen's Pure Bred Holstein-Freisons. 2. Wm. Engelter's Farm Near New Salem. 3. John Christiansen's Dairy Cows. 4. John Christiansen's Herd and Buildings, Morton County.

"New Rockford, N. D.

"Mr. W. C. Gilbreath, Commissioner of Agriculture, Bismarck,
N. D.:

"DEAR SIR: The cause of discrepancy as referred to is caused by neglect of assessors in collecting statistics. Some of the assessors return very incomplete reports, while one assessor failed to return any. The report we sent you was made out according to books returned to me. I have tried to explain to assessors the necessity of collecting these statistics, so I may make out an accurate report, but assessors say a great many farmers refuse to give in any information along this line, some saying they cannot tell as they do not keep an account of these matters; others have the mistaken idea that these statistics, regarding grain especially, are used for speculation, etc., and some of the assessors have told me that it is impossible to collect these statistics correctly.

"Very respectfully yours,

"W. C. SCHWOEBEL,
County Auditor."

"Wahpeton, N. D., March 2, 1908.

"Mr. W. C. Gilbreath, Commissioner of Agriculture, Bismarck,
N. D.:

"DEAR SIR: Relating to your statement, on the other face of this letter, will say that the cause of the decrease you speak of, we believe to be mostly due to the lack of report on the part of the assessors.

"Yours truly,

"E. S. CAMERON,
Co. Auditor."

"Grafton, N. D.

"Mr. W. C. Gilbreath, Commissioner of Agriculture, Bismarck,
N. D.:

"DEAR SIR: The only explanation I could give would be the inaccuracy and returns. The greatest difficulty, in my opinion, in getting the assessors to give the statistic part of their duty more serious attention is the fact that many assessors do the work for less than they should, the amount to be paid being fixed at township meeting.

"Yours truly,

"O. M. FRAZER,
Auditor."

"Grand Forks, N. D., March 3, 1908.

"Mr. W. C. Gilbreath, Bismarck, N. D.:

"DEAR SIR: In 1907, some townships in this county made no crop report to this office—returning their books blank. Reason given, that it was information given out for the benefit of elevators and grain men. Hence, the report for 1907 is not a full report of crop conditions for 1907. What this office did get was correctly summarized and sent you.

"Yours,

"HANS ANDERSON,
Co. Auditor."

It is quite apparent from these letters that the present system of collecting statistics is a failure, and is and will continue to work a detriment to North Dakota so long as it is continued. Assessors who wilfully fail to perform their sworn duty, aided by influences which seek to suppress the facts, are not the proper official sources to obtain accurate data for publication. The law should be changed, taking these reports out of the hands of the assessors, and substituting an assistant statistician in each judicial district whose duties shall be defined by an act of the legislature.

Under the present estray law, each person taking up stock is required, within ten days after assuming control of such stock, to give notice of the finding and taking up thereof in a weekly newspaper, and each person is further required to mail to the Commissioner of Agriculture and Labor a true copy of such notice. A great majority of these notices come to this office in the form of either pencil or typewritten memoranda, and as this department has required a clipping of the printed notice as it appeared in the newspaper, a vast amount of correspondence has been necessitated. Nearly all this letter writing might be obviated if the law was amended to read: "Clipping of the printed notice as it actually appeared in the newspaper," instead of "true copy," as it now reads.

There is no statutory provision for cancellation or transfer of recorded brands, but this office has held, under an opinion received from the attorney general, that legally recorded stock brands may be cancelled by bill of sale from the owner, or legal representatives, after which cancelation of such stock brands might be issued to first applicant. The law should be amended so as to make provision for this contingency. More than eleven thousand, four hundred stock brands are on record in this office.

It has been urged with some substantial reasons that the Commissioner of Agriculture and Labor should have authority to refuse registration of all grade and mongrel stallions, whose services will not raise the breeding standard to a higher excellence.

The coal mine law does not make any distinction between a subterranean mine and a mere pit, which latter often supplies fuel only for the owner himself. There have been many protests against the license proposition, the fee for which is the same whether the output be one hundred tons, five hundred thousand tons, or more. The reports have not been complete, because the operators have not kept records covering all the data required. The list of licensed mines covers only those that paid on or before June 30, 1908, since which time a few others have also paid their \$5.00 fee.

Respectfully,

W. C. GILBREATH,
Commissioner of Agriculture and Labor.

AUTHORITY

QUOTATION FROM THE LAW REQUIRING COMMISSIONER OF AGRICULTURE AND LABOR TO PREPARE STATISTICS.

"The Commissioner of Agriculture and Labor shall be the state statistician. It shall be his duty to obtain from the assessors and other officers of the organized counties of the state, and to collate and prepare in tabulated form for reference, statistics showing the assessed valuation of all real and personal property, the acreage and yield of all kinds of grain and tame grasses; the number of horses, cattle, sheep and other live stock, and other information pertaining to, and showing the condition of the growth, development and resources of the state by counties."

VALUATION

THE VALUATION OF EACH CLASS OF PROPERTY IN
THE COUNTIES NAMED AS LEFT BY THE STATE
BOARD OF EQUALIZATION FOR THE YEAR 1906.

BARNES.

Real	\$ 5,144,973.00
Personal	1,353,201.00
Railroad	1,158,670.00
Telegraph	10,131.00
Express	7,539.00
Telephone	46,042.00
Street railway	2,500.00
Total	\$ 7,723,056.00

BENSON.

Real	\$ 2,794,314.00
Personal	1,050,412.00
Railroad	744,988.00
Telegraph	8,556.00
Express	5,491.00
Telephone	13,180.00
Total	\$ 4,616,951.00

BILLINGS.

Real	\$ 1,093,265.00
Personal	747,824.00
Railroad	422,517.00
Telegraph	4,081.00
Express	2,494.00
Total	\$ 2,270,181.00

BOTTINEAU.

Real	\$ 4,462,541.00
Personal	1,573,465.00
Railroad	933,931.00
Telegraph	4,463.00
Express	8,518.00
Telephone	9,530.00
Total	\$ 6,992,448.00

BURLEIGH.

Real	\$ 2,640,981.00
Personal	789,634.00
Railroad	872,576.00
Telegraph	7,228.00
Express	5,943.00
Telephone	5,210.00
Total	\$ 4,321,572.00

CASS.

Real	\$ 11,371,008.00
Personal	2,985,360.00
Railroad	2,007,156.00
Telegraph	22,068.00
Express	14,366.00
Telephone	110,897.00
Street railway	19,320.00
Total	\$ 16,530,175.00

CAVALIER.

Real	\$ 4,115,185.00
Personal	1,264,257.00
Railroad	738,335.00
Telegraph	5,458.00
Express	5,952.00
Telephone	11,750.00
Total	\$ 6,140,937.00

DICKEY.

Real	\$ 2,714,982.00
Personal	769,944.00
Railroad	916,424.00
Telegraph	9,052.00
Express	7,440.00
Telephone	10,370.00
Total	\$ 4,428,212.00

EDDY.

Real	\$ 1,397,833.00
Personal	422,574.00
Railroad	131,047.00
Telegraph	1,756.00
Express	1,075.00
Telephone	6,780.00
Total	\$ 1,961,065.00

EMMONS.

Real	\$ 1,372,457.00
Personal	690,736.00
Railroad	480,746.00
Telegraph	5,821.00
Express	3,995.00
Telephone	2,866.00
Total	\$ 2,556,631.00

FOSTER.

Real	\$ 1,729,467.00
Personal	495,114.00
Railroad	426,936.00
Telegraph	3,746.00
Express	2,946.00
Telephone	8,205.00

Total \$ 2,666,414.00

GRAND FORKS.

Real	\$ 8,057,110.00
Personal	2,316,357.00
Railroad	1,271,646.00
Telegraph	13,859.00
Express	8,480.00
Telephone	93,340.00
Street railway	3,375.00

Total \$ 11,764,167.00

GRIGGS.

Real	\$ 2,307,296.00
Personal	833,608.00
Railroad	246,529.00
Telegraph	3,327.00
Express	2,033.00
Telephone	16,730.00

Total \$ 3,409,523.00

KIDDER.

Real	\$ 1,240,318.00
Personal	330,535.00
Railroad	281,457.00
Telegraph	2,712.00
Express	1,657.00
Telephone	1,100.00

Total \$ 1,857,779.00

LAMOURE.

Real	\$ 3,026,808.00
Personal	864,751.00
Railroad	719,035.00
Telegraph	9,232.00
Express	5,903.00
Telephone	7,320.00

Total \$ 4,633,054.00

LOGAN.

Real	\$ 906,940.00
Personal	397,062.00
Railroad	323,359.00
Telegraph	2,267.00
Express	2,511.00
Telephone	920.00

Total \$ 1,633,059.00

M'HENRY.

Real	\$ 3,104,385.00
Personal	1,380,028.00
Railroad	960,470.00
Telegraph	4,958.00
Express	6,303.00
Telephone	2,840.00
Total	\$ 5,458,984.00

M'INTOSH.

Real	\$ 1,313,423.00
Personal	656,908.00
Railroad	369,685.00
Telegraph	8,398.00
Express	2,847.00
Telephone	1,710.00
Total	\$ 2,352,971.00

M'KENZIE.

Real	\$ 214,137.00
Personal	466,081.00
Telephone	320.00
Total	\$ 680,538.00

M'LEAN.

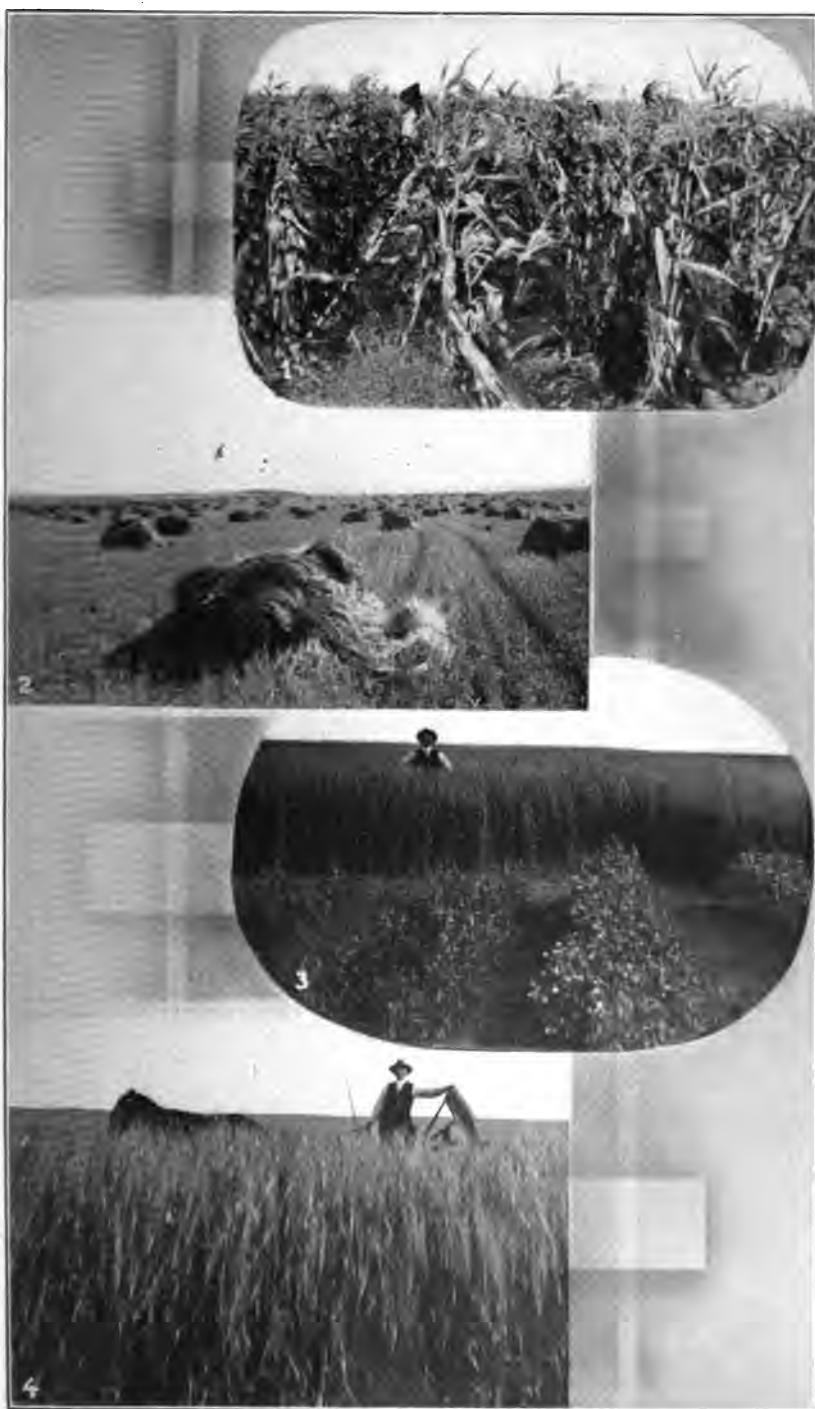
Real	\$ 2,612,782.00
Personal	1,260,539.00
Railroad	653,943.00
Telegraph	5,938.00
Express	5,107.00
Telephone	3,700.00
Total	\$ 4,542,009.00

MERCER.

Real	\$ 649,761.00
Personal	279,610.00
Telephone	290.00
Total	\$ 929,661.00

MORTON.

Real	\$ 3,101,788.00
Personal	1,118,524.00
Railroad	728,410.00
Telegraph	6,844.00
Express	4,181.00
Telephone	6,735.00
Total	\$ 4,966,482.00



STARK COUNTY

1. Corn Field. 2. Grain in Shock. 3. Growing Grain. 4. Grain Field.

NELSON.

Real	\$ 2,659,791.00
Personal	886,049.00
Railroad	319,635.00
Telegraph	2,400.00
Express	2,072.00
Telephone	16,995.00
Total	\$ 3,886,942.00

OLIVER.

Real	\$ 557,625.00
Personal	223,456.00
Telephone	600.00
Total	\$ 781,681.00

PEMBINA.

Real	\$ 3,880,550.00
Personal	1,113,291.00
Railroad	746,498.00
Telegraph	8,946.00
Express	5,467.00
Telephone	18,845.00
Total	\$ 5,773,597.00

PIERCE.

Real	\$ 2,066,955.00
Personal	697,855.00
Railroad	380,160.00
Telegraph	3,126.00
Express	2,467.00
Telephone	1,710.00
Total	\$ 3,152,273.00

RAMSEY.

Real	\$ 3,550,695.00
Personal	1,261,286.00
Railroad	749,770.00
Telegraph	4,256.00
Express	4,213.00
Telephone	21,126.00
Total	\$ 5,591,946.00

. RANSOM.

Real	\$ 2,336,771.00
Personal	680,237.00
Railroad	485,691.00
Telegraph	4,661.00
Express	3,466.00
Telephone	11,137.00
Total	\$ 3,521,963.00

RICHLAND.

Real	\$ 6,597,345.00
Personal	1,557,032.00
Railroad	1,687,295.00
Telegraph	16,471.00
Express	6,367.00
Telephone	22,709.00
Total	\$ 9,887,219.00

ROLETTE.

Real	\$ 1,902,304.00
Personal	696,322.00
Railroad	432,335.00
Telegraph	2,542.00
Express	3,449.00
Telephone	3,310.00
Total	\$ 3,040,262.00

SARGENT.

Real	\$ 2,129,137.00
Personal	741,098.00
Railroad	909,375.00
Telegraph	10,549.00
Express	7,385.00
Telephone	6,810.00
Total	\$ 3,804,354.00

STARK.

Real	\$ 1,706,996.00
Personal	612,320.00
Railroad	563,449.00
Telegraph	5,297.00
Express	3,237.00
Telephone	3,200.00
Total	\$ 2,894,499.00

STEELE.

Real	\$ 2,708,591.00
Personal	740,600.00
Railroad	237,870.00
Telegraph	3,229.00
Express	1,973.00
Telephone	16,600.00
Total	\$ 3,708,863.00

STUTSMAN.

Real	\$ 5,380,502.00
Personal	1,279,291.00
Railroad	1,092,717.00
Telegraph	11,278.00
Express	7,380.00
Telephone	15,501.00
Total	\$ 7,786,669.00

TOWNER.

Real	\$ 3,011,044.00
Personal	832,158.00
Railroad	529,768.00
Telegraph	3,967.00
Express	3,039.00
Telephone	6,780.00
Total	\$ 4,386,756.00

TRAILL.

Real	\$ 4,114,724.00
Personal	1,139,558.00
Railroad	454,817.00
Telegraph	8,369.00
Express	5,114.00
Telephone	39,094.00
Total	\$ 5,761,676.00

WALSH.

Real	\$ 5,725,264.00
Personal	1,460,651.00
Railroad	1,169,587.00
Telegraph	11,489.00
Express	8,819.00
Telephone	25,644.00
Total	\$ 8,401,454.00

WARD.

Real	\$ 6,005,683.00
Personal	3,351,444.00
Railroad	2,170,470.00
Telegraph	13,744.00
Express	13,609.00
Telephone	14,350.00
Total	\$ 11,569,300.00

WELLS.

Real	\$ 3,374,240.00
Personal	1,055,787.00
Railroad	621,513.00
Telegraph	5,076.00
Express	4,205.00
Telephone	3,610.00
Total	\$ 5,064,441.00

WILLIAMS.

Real	\$ 845,846.00
Personal	802,253.00
Railroad	594,285.00
Telegraph	5,740.00
Express	3,507.00
Telephone	7,470.00
Total	\$ 2,259,101.00

UNORGANIZED STARK.

Real	\$ 1,397,337.00
Personal	852,072.00
Total	<u>\$ 2,249,409.00</u>
Grand Total	\$195,958,274.00

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1907

Number of farms in North Dakota	61,324
Number of acres under cultivation	9,890,900
Number of acres in farms (cultivated and uncultivated)	16,282,033

AGRICULTURAL PRODUCTS FOR 1906.

Crop	Acres Sown (Planted)	Acres Harvested	Bushels Harvested (Tons Cut)
Wheat	5,151,089	5,007,533	72,534,821
Oats	1,057,219½	1,047,866	33,940,122
Barley	538,319½	534,998	13,289,547
Flax	1,287,628	1,240,646	13,075,301
Rye	34,568½	34,550½	514,663
Speltz	82,719	82,719	2,039,801
Corn	236,809	.....	1,286,893
Potatoes	22,082¼	.....	1,757,367
Roots of all kinds	1,134½	.....	63,848
Millet and Hungarian	59,642¾	.....	94,868
Brome Grass	24,855¾	.....	33,078½
Other tame hay	65,784¾	.....	96,370

Tons of prairie hay cut, 1,630,650.

ACREAGE LOST BY HAIL IN 1906.

Total loss	31,553
Three-fourths loss	15,892½
One-half loss	25,701
One-fourth loss	44,722

CROP ACREAGE FOR 1907.

Wheat	5,246,782
Oats	1,312,372½
Barley	768,322½
Flax	1,392,333
Rye	40,688
Corn	114,774¼
Potatoes	25,342½
Roots of all kinds	1,148
Millet and Hungarian (hay)	61,816
Brome Grass	19,758
Other tame grasses	70,611½

Total acreage of crop, including tame grasses	9,053,947¾
Value of garden products sold in 1906	\$ 61,347.74
Value of poultry and eggs sold in 1906	439,557.08

DAIRY PRODUCTS FOR 1906.

Number of pounds cheese (made in families)	36,593
Number of pounds butter (made in families)	6,929,767
Value of milk sold, other than to cheese factories and creameries	\$ 96,340.00
Value of milk sold to cheese factories and creameries, or made into butter by such factories	447,552.15
Number of pounds milk sold to cheese factories.....	172,416
Number of pounds of milk sold to creameries.....	5,342,052
Number of cows used for dairying in 1907.....	115,344

Number of sheep sheared in 1906.....	245,977
Number of pounds of wool clipped in 1906	1,527,148
Number of fruit trees in bearing.....	11,094
Number of fruit trees not in bearing.....	59,475
Number of acres of berries of all kinds.....	6,040
Value of fruit raised and marketed in 1906.....	\$ 3,041.25
Number of acres of artificial forests, in the state, one year old or over	133,491½

NUMBER OF LIVE STOCK IN 1907.

Horses	388,119
Mules	5,256
Cattle	526,112
Sheep	231,385
Hogs	182,806

Value of all animals fattened and killed for home use, and sold to local butchers in 1906	\$2,740,226.85
Value of all cattle, hogs and sheep sold for market, and shipped outside the state in 1906.....	3,969,934.00
Value of all horses sold to markets outside the state in 1906..	269,942.00
Value of all kinds of stock brought into the state in 1906....	482,054.00

COAL MINES, 1906.

Number of mines operated	59
Number of tons of coal mined	515,481
Number of men employed in mines.....	404
Average daily wages paid coal miners.....	\$ 3.17

VITAL STATISTICS, 1906.

Number of males living on, or employed on farms.....	121,454
Number of females living on, or employed on farms.....	107,419

FISCAL YEAR ENDING JUNE 30, 1907.

Number of births	7,118
Number of deaths	1,916

FARM LABOR STATISTICS FOR 1906.

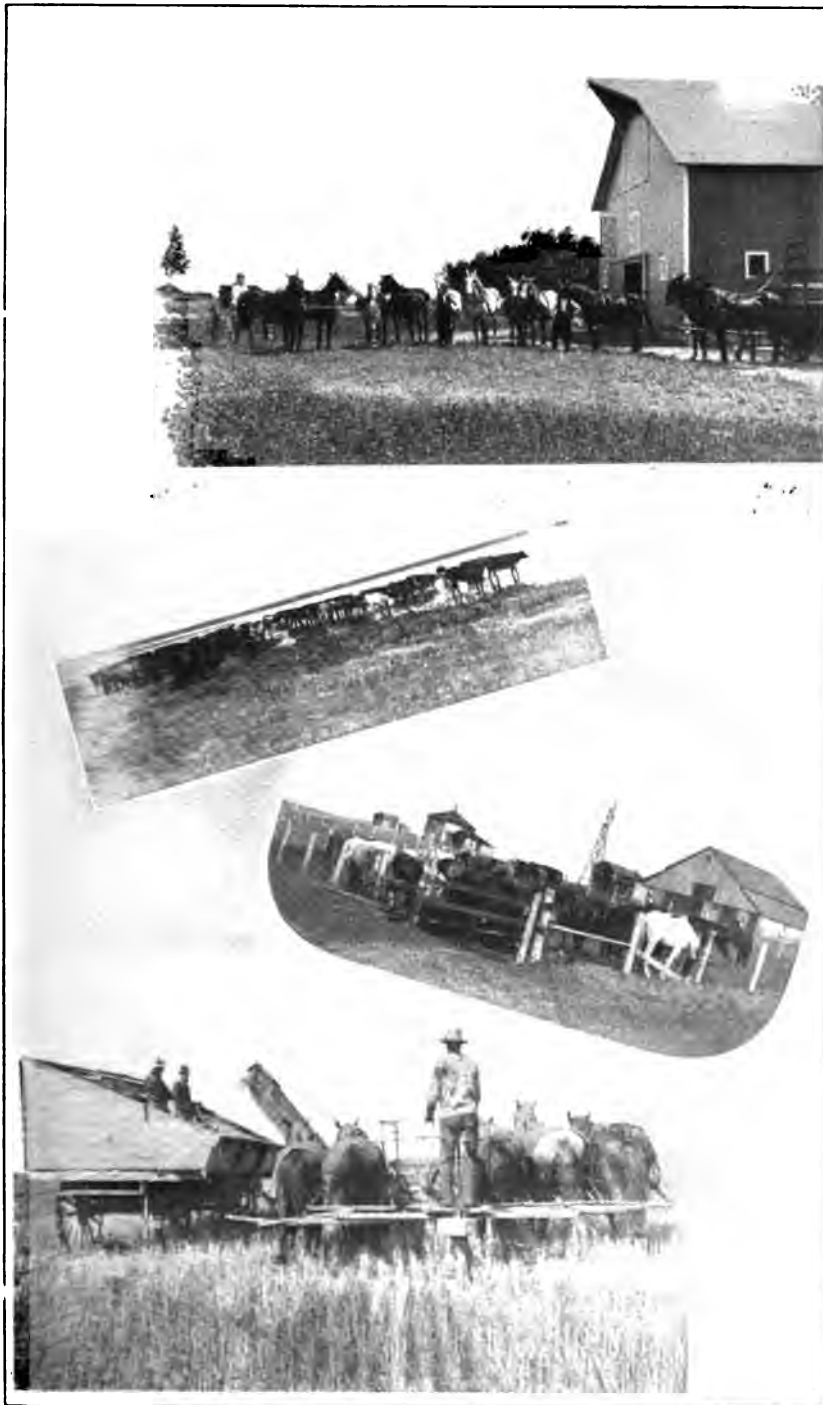
Number of male employees	27,430
Number of female employees	5,548
Amount of wages paid during the year.....	\$7,119,137.36

NUMBER OF FARMS AND ACREAGE, 1907.

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. of Acres in Farms Cultivated and Uncultivated
Adams			
Barnes	1,486	458,089	605,503
Benson	2,005	246,076	340,611
Billings	100	16,032	50,000
Bottineau	3,290	500,000	1,052,800
Bowman	10	240	1,600
Burleigh	751	82,399	196,094
Cass	1,775	651,126	708,821
Cavalier	2,946	390,496	571,242
Dickey	825	206,428	399,492
Eddy	583	129,564	237,025
Emmons	1,054	114,108	356,579
Foster	627	119,072	146,836
Grand Forks	1,549	448,937	565,718
Griggs	713	242,518	311,193
Hettinger	1,013	53,692	269,862
Kidder	907	36,693	96,214
LaMoure	793	253,675	366,852
Logan	799	53,013	176,114
McHenry	2,512	438,187	579,686
McIntosh	450	90,399	231,050
McKenzie	586	14,955	96,099
McLean	2,784	217,006	493,173
Mercer	638	50,716	149,758
Morton	1,775	167,374	566,123
Nelson	1,122	315,581	436,016
Oliver	625	40,954	169,732
Pembina	1,800	384,778	510,506
Pierce	1,277	277,193	322,588
Ramsey	1,229	320,819	500,011
Ransom	1,014	193,996	302,809
Richland	1,579	384,542	497,092
Rolette	1,052	163,250	511,940
Sargent	922	174,624	281,249
Stark	405	47,300	156,400
Steele	1,050	262,808	319,396
Stutsman	1,529	318,049	561,451
Towner	920	293,355	387,113
Traill	1,300	338,407	399,356
Walsh	1,956	452,001	592,645
Ward	11,000	541,536	1,088,425
Wells	1,084	339,318	526,997
Williams	1,489	61,594	209,862
Total	61,324	9,890,900	16,282,033

WHEAT, 1906.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams .....	.....	.....	.....	.....
Barnes	255,382	256,012	4,347,001	16.90
Benson	148,310	148,080	2,246,327	15.35
Billings	4,000	4,000	100,000	25.00
Bottineau	310,000	310,000	4,650,000	15.00
Bowman	14	14	260	18.57
Burleigh	33,601	33,456	437,673	13.11
Cass	301,804	277,880	4,085,522	14.70
Cavalier	216,322	216,282	3,433,846	15.83
Dickey	95,829	95,478	1,664,413	17.45
Eddy	64,471	64,323	981,580	15.27
Emmons	52,119	51,194	696,946	11.69
Foster	60,077	54,160	845,672	15.89
Grand Forks	257,070	224,152	2,854,857	12.73
Griggs	111,837	111,347	1,836,881	16.47
Hettinger	9,439	9,439	135,535	14.30
Kidder	10,252	10,202	128,437	12.36
LaMoure	133,877	132,352	2,261,312	17.11
Logan	20,193	20,054	253,813	12.65
McHenry	202,110	190,228	2,571,415	13.46
McIntosh	56,166	56,166	703,978	12.39
McKenzie	601	601	14,998	23.28
McLean	103,131	103,005	1,411,292	13.67
Mercer	26,814	26,502	306,998	11.46
Morton	80,236	80,236	1,110,994	13.77
Nelson	157,801	156,896	2,033,193	12.94
Oliver	19,754	19,749	284,414	14.34
Pembina	227,850	223,868	3,125,600	13.94
Pierce	141,216	115,420	1,790,049	15.59
Ramsey	193,524	193,514	2,719,893	14.07
Ransom	116,251	115,330	2,156,218	18.68
Richland	179,528	179,480	2,373,379	13.37
Rolette	91,947	89,555	1,224,511	13.68
Sargent	81,224	77,093	1,334,554	17.31
Stark	21,600	21,575	215,750	10.00
Steele	146,029	146,029	2,069,654	14.17
Stutsman	154,054	153,204	2,060,023	13.46
Towner	158,700	158,610	2,545,155	15.67
Traill	159,265	140,747	1,708,589	12.72
Walsh	242,141	240,530	3,014,497	12.53
Ward	267,390	263,300	4,017,684	14.81
Wells	219,935	219,935	2,470,217	11.31
Williams	19,225	17,537	311,691	17.57
Total	5,151,089	5,007,533	72,534,821	14.87



LA MOURE COUNTY VIEWS

1. Work Horses on Typical Farm. 2. Cattle Near Edgeley. 3. Horses in Farm Corral. 5. Heading Outfit From Behind.

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OATS, 1906.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams .....	.....	.....	.....	.....
Barnes	46,774	47,272	1,753,361	39.19
Benson	25,034	25,013	938,267	37.48
Billings	2,500	2,500	150,000	60.00
Bottineau	55,000	55,000	2,145,000	39.00
Bowman	157	157	5,855	35.67
Burleigh	8,240	8,240	269,160	32.64
Cass	59,307	55,457	1,916,979	34.27
Cavalier	52,737	52,736	2,003,707	37.93
Dickey	15,635	15,468	543,774	35.66
Eddy	15,828	15,808	480,834	30.48
Emmons	5,880	5,880	198,856	33.90
Foster	12,512	13,602	451,963	33.27
Grand Forks	52,173	51,397	1,583,329	30.69
Griggs	22,823	21,979	859,425	34.63
Hettinger	5,075	5,060	141,094	27.87
Kidder	3,006	3,006	88,058	29.27
LaMoure	20,237	20,056	761,614	37.94
Logan	2,256	2,243	74,449	33.18
McHenry	44,858	44,197	1,364,278	33.82
McIntosh	3,365	3,365	82,822	24.23
McKenzie	1,103	1,103	39,824	36.10
McLean	33,588	33,323	963,646	28.96
Mercer	8,489	8,470	237,585	28.05
Morton	24,145	24,145	655,180	27.14
Nelson	31,203	31,003	1,022,134	32.96
Oliver	8,565	8,565	262,445	30.66
Pembina	44,136	44,116	1,431,254	32.43
Pierce	22,294	22,398	832,730	37.01
Ramsey	46,859	46,518	1,055,845	22.66
Ransom	25,864	25,051	805,716	32.19
Richland	21,798	21,748	169,954	7.83
Rolette	19,614	19,523	668,416	33.67
Sargent	17,622	16,915	593,629	35.17
Stark	11,500	11,220	327,640	29.19
Steele	26,601	26,601	852,884	32.43
Stutsman	31,670	31,625	1,130,880	35.75
Towner	32,732	32,732	1,141,699	34.57
Trall	27,780	25,681	687,216	26.70
Walsh	46,820	46,790	1,506,655	32.20
Ward	77,538	76,170	2,450,253	32.17
Wells	33,008	33,008	970,288	29.39
Williams	10,893	12,724	321,424	25.28
Total	1,057,219	1,047,866	33,940,122	32.46

BARLEY, 1906.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams .....	.....	.....	.....	.....
Barnes	24,746	25,531	716,904	28.11
Benson	12,151	12,037	320,819	26.74
Billings	1,000	1,000	50,000	50.00
Bottineau	11,000	11,000	297,000	27.00
Bowman	3	3	50	16.67
Burleigh	408	398	9,317	24.20
Cass	27,961	27,743	691,851	24.91
Cavalier	44,018	43,985	1,221,074	27.75
Dickey	16,071	16,024	421,249	26.29
Eddy	3,922	3,902	94,867	24.27
Emmons	5,599	5,599	108,168	19.39
Foster	9,348	9,080	231,417	25.54
Grand Forks	31,526	31,326	706,304	25.74
Griggs	9,338	9,148	238,968	26.12
Hettinger	210	210	4,469	21.22
Kidder	837	837	23,579	28.17
LaMoure	15,358	15,142	379,682	25.07
Logan	2,782	2,789	68,159	24.43
McHenry	6,621	6,621	154,853	23.39
McIntosh	4,022	4,022	98,943	24.60
McKenzie	92	92	3,307	35.94
McLean	3,916	3,400	62,007	18.24
Mercer	441	441	9,618	21.81
Morton	1,095	1,095	30,012	27.60
Nelson	12,917	12,917	293,535	22.72
Oliver	665	665	16,726	25.15
Pembina	56,596	56,566	1,324,363	23.41
Pierce	4,347	4,870	124,818	25.22
Ramsey	22,486	22,208	487,878	21.96
Ransom	9,479	8,581	238,689	27.82
Richland	59,757	56,406	1,474,537	26.14
Rolette	9,776	8,970	197,051	21.97
Sargent	11,392	11,217	301,200	26.85
Stark	450	450	3,600	8.00
Steele	13,243	13,243	379,288	28.64
Stutsman	13,966	13,936	367,547	26.37
Towner	22,981	22,981	489,293	21.29
Traill	17,410	20,580	306,596	14.99
Walsh	31,205	30,972	734,231	23.71
Ward	5,538	5,472	139,056	25.59
Wells	12,973	12,973	453,394	34.95
Williams	673	565	15,128	26.75
Total	538,319	534,998	13,289,547	25.11

FLAX, 1906.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	52,362	51,065	645,490	12.64
Barnes	27,215	27,147	306,044	12.66
Benson	8,000	8,000	100,000	12.50
Billings	66,000	66,000	660,000	10.00
Bottineau	26	26	175	6.73
Bowman	14,849	14,847	134,680	9.07
Burleigh	38,625	34,898	370,432	10.62
Cass	12,448	12,413	159,915	12.08
Cavalier	32,492	32,459	359,903	11.09
Dickey	25,635	25,480	201,150	7.89
Eddy	21,073	21,073	229,149	10.87
Emmons	18,500	16,824	163,257	9.07
Foster	67,271	61,853	645,742	10.44
Grand Forks	46,069	44,959	566,129	12.59
Griggs	5,744	5,744	57,991	10.09
Hettinger	11,236	11,186	107,771	9.63
Kidder	41,922	41,882	510,940	12.23
La Moure	6,851	6,580	184,636	28.06
Logan	73,720	73,078	713,612	9.75
McHenry	9,698	9,698	161,339	16.63
McIntosh	1,747	1,747	19,579	11.27
McKenzie	72,431	72,266	65,796	.81
McLean	7,270	7,268	56,636	7.08
Mercer	15,371	15,371	142,603	9.27
Morton	52,176	52,071	557,106	10.69
Nelson	7,749	7,749	66,526	8.59
Oliver	10,655	10,556	121,816	11.54
Pembina	28,049	28,407	211,623	7.45
Pierce	37,361	36,925	367,939	9.42
Ramsey	18,419	17,210	235,759	13.69
Ransom	21,776	20,896	550,301	26.34
Richland	15,929	15,421	163,015	10.57
Rolette	23,211	22,356	240,685	10.76
Sargent	896	896	8,352	9.32
Stark	32,341	32,341	407,654	12.29
Steele	64,868	64,768	715,509	11.05
Stutsman	43,997	43,752	454,792	10.39
Towner	27,263	25,253	238,544	9.45
Traill	35,697	35,420	392,488	11.08
Walsh	143,293	135,392	1,345,999	9.91
Ward	30,331	30,331	291,621	9.61
Wells	17,062	19,038	142,613	7.49
Williams				
Total	1,287,628	1,240,646	13,075,301	11.02

RYE. 1908.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams . . . . .	.....	.....	.....	.....
Barnes	325	325	4,150	12.76
Benson	318	318	6,233	19.56
Billings . . . . .	.....	.....	.....	.....
Bottineau	600	600	7,800	13.00
Bowman . . . . .	.....	.....	.....	.....
Burleigh	1,224	1,224	17,334	14.16
Cass	1,319	1,319	13,060	9.90
Cavalier	31	31	622	20.07
Dickey	519	519	6,911	13.53
Eddy	3,866	3,866	66,802	17.28
Emmons	603	603	9,277	15.88
Foster	2,961	2,961	52,950	18.00
Grand Forks	254	254	3,280	13.00
Griggs	4,135	4,135	60,632	11.66
Hettinger	12	12	225	18.75
Kidder	2,619	2,618	33,571	13.00
La Moure	315	315	1,680	5.33
Logan	384	384	3,508	9.07
McHenry	1,573	1,573	23,935	15.21
McIntosh	403	403	4,598	11.47
McKenzie	20	20	500	25.00
McLean	672	672	10,371	15.99
Mercer . . . . .	.....	.....	.....	.....
Morton	368	368	7,013	19.06
Nelson	218	218	3,684	16.90
Oliver	5	5	156	31.02
Pembina	442	435	5,292	12.17
Pierce	44	44	506	11.56
Ramsey	92	92	2,474	28.70
Ransom	369	369	6,823	18.32
Richland	528	528	5,744	10.58
Rolette	188	188	2,690	14.37
Sargent	99	99	1,190	12.02
Stark	723	712	4,728	6.67
Steele	613	613	18,376	29.98
Stutsman	1,307	1,307	28,014	29.40
Towner	70	70	1,650	23.58
Traill	115	115	1,223	10.63
Walsh	7	7	170	24.30
Ward	510	510	8,749	17.85
Wells	6,620	6,620	87,430	13.27
Williams	98	98	1,312	13.32
Total	34,568	34,550	514,663	16.09

SPELTZ, 1906.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams . . . . .	.....	.....	.....	.....
Barnes	3,003	3,003	59,510	19.78
Benson	959	959	22,682	23.65
Billings	500	500	25,000	50.00
Bottineau	900	900	2,600	2.78
Bowman	10	10	300	30.00
Burleigh	4,357	4,357	82,040	18.83
Cass	2,479	2,479	20,280	8.18
Cavalier	383	383	14,014	36.58
Dickey	8,153	8,153	274,831	33.71
Eddy	2,198	2,198	57,798	26.30
Emmons	4,964	4,964	186,485	37.57
Foster	3,081	3,081	49,100	15.93
Grand Forks	374	374	14,290	38.21
Griggs	2,323	2,323	20,837	8.97
Hettinger	464	464	11,044	23.80
Kidder	1,438	1,438	34,847	24.37
La Moure	5,210	5,210	128,022	24.53
Logan	3,318	3,318	86,778	26.15
McHenry	2,595	2,595	50,837	19.59
McIntosh	5,062	5,062	112,166	22.16
McKenzie	22	22	596	27.01
McLean	1,617	1,617	30,777	18.42
Mercer	498	498	13,207	28.73
Morton	1,788	1,788	45,475	25.43
Nelson	1,055	1,055	18,174	17.24
Oliver	377	377	10,879	28.37
Pembina	85	85	2,206	25.95
Pierce	777	777	20,431	26.27
Ramsey	1,522	1,522	43,879	28.83
Ransom	2,106	2,105	74,451	35.36
Richland	3,042	3,042	18,400	6.05
Rolette	625	625	29,935	47.89
Sargent	6,326	6,326	195,265	30.89
Stark . . . . .	.....	.....	.....	.....
Steele . . . . .	.....	.....	.....	.....
Stutsman	3,745	3,745	117,994	31.57
Towner	2,400	2,400	65,685	27.37
Traill	93	93	1,145	12.19
Walsh	71	71	2,325	32.73
Ward	3,681	3,681	75,587	20.53
Wells	196	196	6,130	31.26
Williams	928	923	13,799	14.95
Total	82,719	82,719	2,039,801	24.67

CORN, 1906.

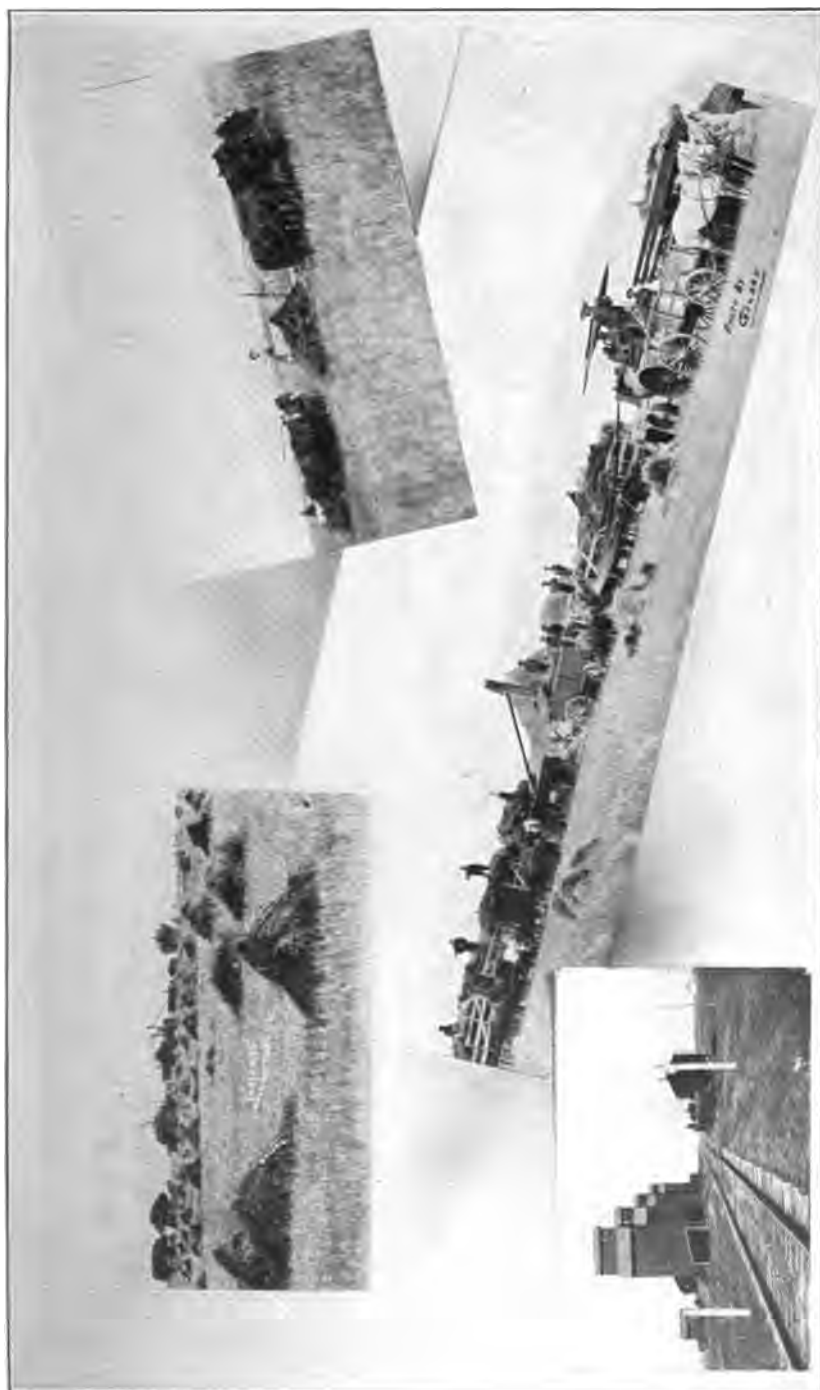
County.	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Adams	2,687	17,216	6.41
Barnes	83	1,101	13.24
Benson	24	960	40.00
Billings	400	2,400	6.00
Bottineau	16	650	40.63
Bowman	2,247	52,140	21.31
Burleigh	23,903	104,183	8.12
Cass	432	6,912	16.00
Cavalier	3,675	88,435	24.06
Dickey	85	1,100	19.94
Eddy	3,921	89,090	22.72
Emmons	216	1,290	5.97
Foster	1,655	2,776	1.69
Grand Forks	257	490	1.97
Griggs	1,194	24,614	12.24
Hettinger	268	4,570	17.05
Kidder	1,156	17,497	15.22
LaMoure	477	2,500	5.24
Logan	1,291	8,427	6.53
McHenry	162	3,755	23.18
McIntosh	78	2,655	34.04
McKenzie	1,766	5,211	2.97
McLean	463	10,845	23.42
Mercer	4,893	112,886	23.07
Morton	157	593	3.96
Nelson	712	14,923	21.09
Oliver	614	1,600	2.60
Pembina	569	540	.99
Pierce	838	305	.36
Ramsey	3,362	84,923	25.26
Ransom	141,450	278,815	1.90
Richland	107	3,770	35.07
Rolette	12,208	111,632	9.14
Sargent	2,700	107,500	39.81
Stark	1,413	5,610	3.96
Steele	451	3,149	6.98
Stutsman	93	1,510	16.24
Towner	5,200	9,485	1.82
Traill	679	300	.44
Walsh	2,319	3,023	1.30
Ward	12,094	3,857	.32
Wells	292	3,655	15.92
Williams			
Total	236,809	1,286,893	13.59

POTATOES, 1906.

County.	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Adams . . . . .	.....	.....	.....
Barnes	672	70,543	104.96
Benson	243	30,102	123.87
Billings	3	325	108.33
Bottineau	500	67,500	135.00
Bowman	6	580	96.67
Burleigh	439	41,248	93.73
Cass	1,230	108,672	88.35
Cavalier	514	79,333	154.34
Dickey	584	34,089	58.29
Eddy	115	12,801	111.31
Emmons	401	37,186	92.70
Foster	145	15,130	104.31
Grand Forks	936	94,117	100.55
Griggs	259	27,162	105.07
Hettinger	313	21,254	67.84
Kidder	174	17,300	98.84
LaMoure	535	34,856	64.46
Logan	137	18,263	133.31
McHenry	668	53,561	80.18
McIntosh	207	19,564	94.51
McKenzie	43	4,033	92.71
McLean	644	65,667	101.81
Mercer	113	11,822	105.72
Morton	1,071	80,103	74.85
Nelson	421	43,416	103.19
Oliver	195	19,986	102.49
Pembina	464	64,175	138.31
Pierce	195	22,285	114.23
Ramsey	510	55,382	108.59
Ransom	548	36,823	67.19
Richland	998	100,599	100.79
Rolette	300	38,855	129.03
Sargent	517	34,142	66.04
Stark	600	21,000	35.00
Steele	3,458	28,367	9.09
Stutsman	541	64,229	118.54
Towner	451	41,510	92.04
Traill	501	39,199	78.24
Walsh	636	63,943	100.54
Ward	1,051	110,618	105.20
Wells	510	900	1.74
Williams.. . . .	232	26,777	110.87
Total	22,080	1,757,367	94.73

ROOTS OF ALL KINDS, 1906.

County	Acres Planted	Bushels Harvested
Adams	8	890
Barnes	10	1,016
Benson	5	500
Billings	34	2,974
Bottineau		
Bowman	6	348
Burlingame	138	2,392
Cass	307½	18,138
Cavalier	6	110
Dickey		
Eddy	11¾	138½
Emmons		
Foster	342	6,875
Grand Forks	¾	120
Griggs	285½	4,360
Hettinger	25	2,549
Kidder	1½	265
LaMoure	11	700
Logan	12	1,042
McHenry		
McIntosh	¾	15
McKenzie	5	545
McLean	3¾	196
Mercer	6	1,768
Morton	1½	302
Nelson	5	575
Oliver	19	4,150
Pembina	½	4
Pierce	5½	6½
Ramsey	1	76
Ransom	¾	185
Richland	31¾	3,298
Rolette	½	15
Sargent	10	469
Stark	1	370
Steele	13	465
Stutsman	3	475
Towner	12	1,754
Traill	9	1,218
Walsh	41¾	5,392
Ward	70	120
Wells	224¾	532
Williams		
Total	1,134½	63,848



SCENES NEAR WESTHOPE

- 1, 2 and 3 Threshing, Harvesting and Farm Scenes Near Westhope.
4. Elevators at Land.

MILLET AND HUNGARIAN, 1906.

County	Acres Sown	Tons Cut
Adams	5,110	7,410
Barnes	1,509	2,207
Benson	300	400
Billings	10	50
Bottineau	118	26
Bowman	4,133	5,057
Burleigh	24 $\frac{1}{4}$	35
Cass	1,021	1,859
Cavalier	1,270	1,922
Dickey	93 $\frac{1}{2}$	177
Eddy	1,197	1,422
Emmons	4,830	7,855
Foster	2,159	3,570
Grand Forks	25 $\frac{1}{2}$	85
Griggs	109	189
Hettinger	2,067 $\frac{1}{2}$	3,559
Kidder	271	7,583
LaMoure	295	400
Logan	133	208
McHenry	24	20
McIntosh	1,247	1,587
McKenzie	630	1,034
McLean	364	519
Mercer	1,411	1,831
Morton	180	687
Nelson	1,305	2,198
Oliver	1,233	2,336
Pembina	1,741	2,403
Pierce	44 $\frac{1}{2}$	38
Ramsey	1,466	2,426
Ransom	490	1,260
Richland	4,498	5,076
Rolette	784	1,280
Sargent	310	460
Stark	5,345	6,060
Steele	8,764	11,516
Stutsman	535	984
Towner	4,457	9,018
Trall	138 $\frac{1}{4}$	121
Walsh		
Ward		
Wells		
Williams		
Total	59,642 $\frac{3}{4}$	94,868

BROME GRASS, 1906.

County	Acres Sown	Tons Cnt
Adams		
Barnes	2,315	2,221
Benson	575	802
Billings		
Bottineau	544	536
Bowman		
Burleigh	91	119
Cass	1,356	1,136
Cavalier	419	482
Dickey	231	283
Eddy	1,181	1,139
Emmons	115	181
Foster	700	283
Grand Forks	1,323	1,411
Griggs	1,047	1,064
Hettinger	32	33
Kidder	387	526
La Moure	1,214½	1,294½
Logan	88	85
McHenry	483	490
McIntosh	11½	25
McKenzie		
McLean	178	224
Mercer		6
Morton	243	240
Nelson	663	608
Oliver	20	57
Pembina	514	648
Pierce	410	300
Ramsey	757	667
Ransom	825	760
Richland	298	307
Rolette	551½	463
Sargent	239	270
Stark	370	550
Steele	838	866
Stutsman	848	1,141
Towner	522	737
Trails	1,092	1,220
Walsh	1,990	2,158
Ward	736¼	723½
Wells	1,640	9,018
Williams	8	4½
Total	24,855¼	33,078½

OTHER TAME GRASSES, 1906.

County	Acres Sown	Tons Cut
Adams		
Barnes	408	1,169
Benson	267	1,255
Billings		
Bottineau	2,087	884
Bowman		
Burleigh		
Cass	10,677	14,243
Cavalier	809	1,279
Dickey	700	1,555
Eddy	219	395
Emmons	9	22
Foster	89	326
Grand Forks	7,917	10,059
Griggs	169	861
Hettinger	5	12
Kidder	88	176
La Moure	385	720
Logan	715	1,430
McHenry	423	1,418
McIntosh		
McKenzie	100	50
McLean	493	1,580
Mercer		
Morton	872	5,987
Nelson	377	3,519
Oliver	1	2
Pembina	6,512	7,999
Pierce	120 $\frac{1}{4}$	195
Ramsey	366	1,223
Ransom	1,072	1,454
Richland	5,366	7,187
Rolette	388	584
Sargent	4,357	3,139
Stark	400	980
Steele	677	938
Stutsman	286	131
Towner	90	291
Traill	12,310	16,352
Walsh	4,064	5,222
Ward	1,680 $\frac{1}{2}$	2,378
Wells	786	1,216
Williams	500	139
Total	65,784 $\frac{3}{4}$	96,370

PRAIRIE HAY, 1908.

County.	Tons Cut.
Adams	62,298
Barnes	28,871
Benson	5,126
Billings	75,000
Bottineau	1,000
Bowman	51,052
Burleigh	29,841
Cass	48,427
Cavalier	61,771
Dickey	18,764
Eddy	71,993
Emmons	6,716
Foster	41,218
Grand Forks	20,810
Griggs	25,297
Hettinger	38,765
Kidder	51,646
LaMoure	35,583
Logan	86,261
McHenry	30,396
McIntosh	6,601
McKenzie	77,429
McLean	24,216
Mercer	69,448
Morton	39,744
Nelson	30,627
Oliver	23,880
Pembina	26,726
Pierce	50,748
Ramsey	49,940
Ransom	45,660
Richland	25,009
Rolette	49,058
Sargent	24,890
Stark	20,505
Steele	60,202
Stutsman	28,452
Towner	11,406
Traill	30,356
Walsh	97,709
Ward	33,035
Wells	14,174
Williams	
Total	1,630,650

ACREAGE LOST BY HAIL, 1906.

County	Total Loss	Three-Quar- ters Loss	One-Half Loss	One-Quarter Loss
Adams				
Barnes	478		780	3,295
Benson	45	80	490	1,398
Billings				
Bottineau	1,100	15.18	1,073	1,812
Bowman				
Burleigh				
Cass	305			
Cavalier	40		69	
Dickey	60			160
Eddy				
Emmons		108	215	567
Foster	270	140	490	765
Grand Forks	3,800	1,440	1,687	11,518
Griggs	695	200	1,070	215
Hettinger	7			
Kidder				
LaMoure	699	1,466	1,594	2,918
Logan	1,889	100		26
McHenry	5,486	215	1,410	1,975
McIntosh				
McKenzie				
McLean	132	11½		
Mercer		95	90	170
Morton	17		66	100
Nelson	109	255	185	815
Oliver	4		54	347
Pembina	30			115
Pierce	561			
Ramsey	1,275		29	115
Ransom	134	210	160	375
Richland	503	670	30	620
Rolette	1,401	855	1,852	3,447
Sargent	979	30	100	10
Stark				
Steele				
Stutsman	835	420	350	425
Towner		70	720	2,705
Traill	8,014	4,755	8,262	4,710
Walsh	750	980	1,718	2,543
Wells				
Ward	1,935	1,757	3,128	3,506
Williams		17	79	70
Total	31,553	15,392½	25,701	44,722

ACREAGE FOR 1907

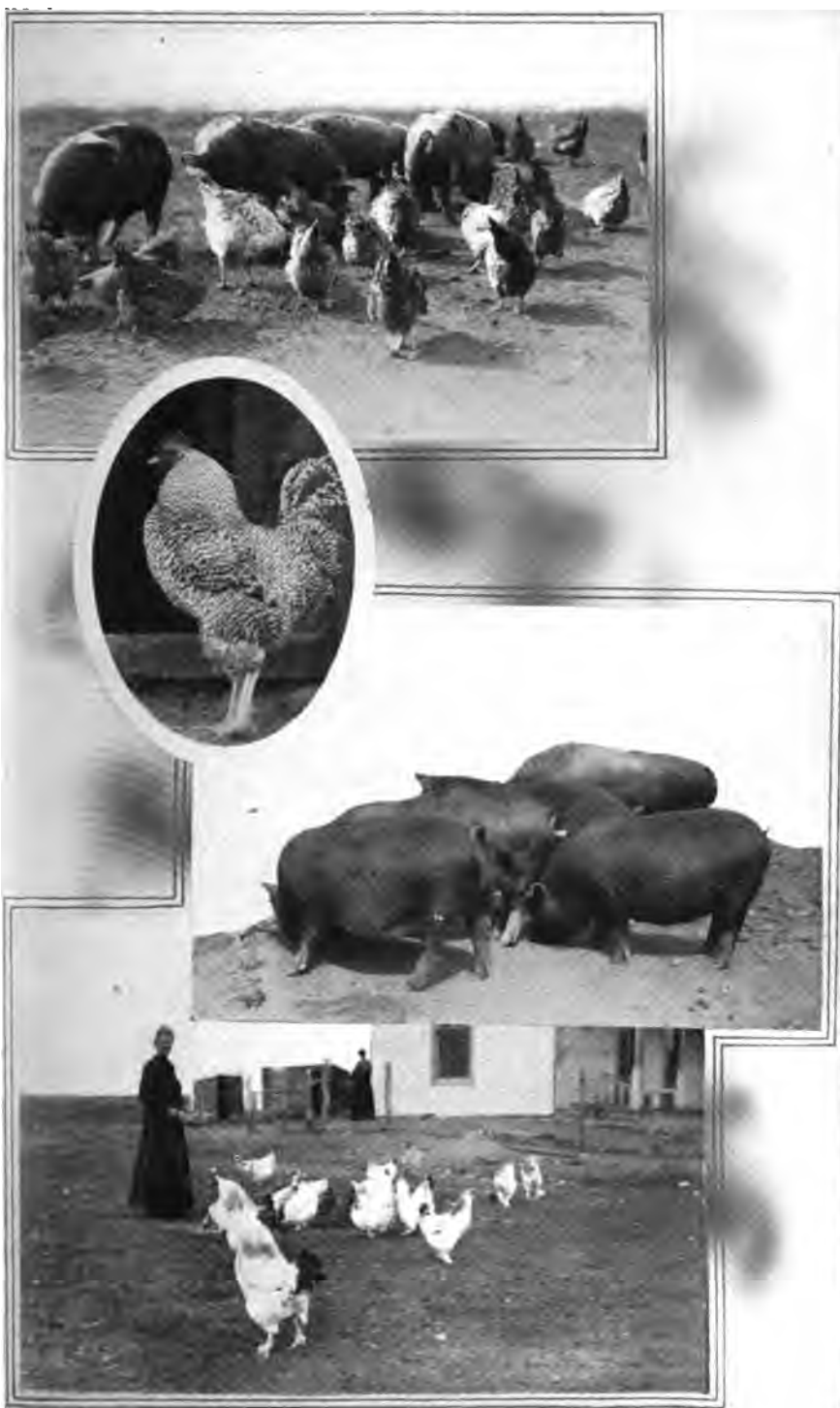
County	Wheat	Oats	Barley	Flax	Rye
Adams	-				
Barnes	318,939	53,534	40,237	58,135	296
Benson	149,141	36,708	22,076	30,020	417
Billings	2,639	3,512	507	3,378	127
Bottineau	300,000	64,000	16,000	70,000	1,400
Bowman	200	2,000	200	2,000	50
Burleigh	41,139	11,982	2,954	18,398	1,586
Cass	315,486	72,923	56,505	59,349	1,512
Cavalier	220,138	32,436	56,055	16,219	790
Dickey	95,641	18,523	21,503	27,875	90
Eddy	76,328	19,674	6,398	19,909	5,108
Emmons	67,139	9,925	12,636	24,873	167
Foster	59,178	16,225	12,177	11,609	3,500
Grand Forks	207,529	64,101	46,192	65,270	522
Griggs	125,399	28,955	13,502	44,457	3,082
Hettinger	16,454	11,286	577	12,573	38
Kidder	13,630	5,703	1,839	16,193	2,478
LaMoure	151,724	26,771	22,456	44,929	1,409
Logan	28,788	4,475	6,205	18,092	379
McHenry	214,179	59,938	13,369	75,718	2,423
McIntosh	62,454	5,768	7,592	12,813	164
McKenzie	2,607	5,495	369	6,904	4
McLean	112,281	41,350	5,006	78,897	1,056
Mercer	30,183	10,460	1,288	9,734	4
Morton	99,908	29,996	2,619	18,174	402
Nelson	150,813	38,852	25,358	56,462	618
Oliver	24,900	11,434	1,203	6,517	34
Pembina	197,091	48,343	62,459	15,004	131
Pierce	130,684	25,779	9,467	30,041	100
Ramsey	201,702	35,918	34,287	35,122	515
Ransom	111,625	30,377	13,481	19,519	782
Richland	157,987	64,841	36,123	24,820	750
Rolette	91,194	22,738	14,459	23,089	266
Sargent	87,234	19,883	14,600	17,318	1,493
Stark	23,700	12,900	670	1,690	850
Steele	138,833	32,970	27,236	45,011	197
Stutsman	175,348	44,496	24,430	66,372	1,248
Towner	158,058	37,597	29,170	44,148	100
Traill	153,389	36,330	27,966	36,438	640
Walsh	235,112	54,057	45,759	47,571	130
Ward	286,343	99,530	9,474	126,176	503
Wells	188,162	45,573	22,619	34,564	5,807
Williams	23,503	15,644	1,239	16,952	160
Total	5,246,782	1,312,372	768,322	1,392,333	40,688

ACREAGE FOR 1907—Continued.

County	Corn	Potatoes	Roots of All Kinds	Hay Millet and Hungarian	Brome Grass
Adams					
Barnes	2,135	769	10	6,074	2,032
Benson	398	404	4	1,329	781
Billings	429	130	18	86	20
Bottineau	500	600	50	125	500
Bowman	100	300	.....	.....	.....
Burleigh	3,266	465	8	48	35
Cass	30,018	1,804	38	4,712	714
Cavalier	108	530	48	55	215
Dickey	5,523	462	.....	828	316
Eddy	207	137	.....	1,131	922
Emmons	5,238	482	11¼	138½	133
Foster	245	205	.....	852	777
Grand Forks	2,456	1,541	23	2,612	1,076
Griggs	431	273½	150½	2,105	1,233½
Hettinger	2,179	515	46¼	67	55
Kidder	342	380	15	167	324
LaMoure	1,276	467	46	1,952	2,270
Logan	225	204	2½	13	22
McHenry	846	672	23	255	677
McIntosh	255	209½	.....	12	2
McKenzie	333¼	127½	60¼	.....	5¼
McLean	774	725	46	151	255
Mercer	1,009	151½	16¾	15	2
Morton	7,433	1,411	7		
Nelson	164	560	½	590	349
Oliver	1,328	208	2	408	19
Pembina	660	529	9	1,510	127
Pierce	264	198¼	1¼	81	91
Ramsey	107½	568⅞	2½	1,346	318
Ransom	4,663	518	8	2,142	532
Richland	19,231	956⅞	37¾	3,204	256
Rolette	267½	413¼	72	33	181½
Sargent	5,511	462	1¾	1,710	204
Stark	3,250	890	16½	625	420
Steele	1,624	342	79	4,013	329
Stutsman	835	812	15	1,234	557
Towner	318	2,349	105	666	747
Traill	8,277	543	5	5,687	286
Walsh	740	637	78¾	10,373	698
Ward	646¼	1,556½	32	841½	785½
Wells	785	481	.....	4,194	1,461
Williams	376¾	353	34	431	30¼
Total	114,774¼	25,342⅞	1,148	61,816	19,758

ACREAGE FOR 1907—Continued.

County	Other Tame Grasses	Total Acreage of Crop, includ- ing Tame Grasses
Adams		
Barnes	582	482,753
Benson	274	241,552
Billings	3	10,949
Bottineau	1,000	454,175
Bowman		4,850
Burleigh	128	80,009
Cass	15,994	559,055
Cavalier	509	327,103
Dickey	330	171,988
Eddy	478	130,292
Emmons	42	120,085 $\frac{1}{2}$
Foster	312	105,080
Grand Forks	6,730	398,052
Griggs	284	219,872 $\frac{1}{2}$
Hettinger	144	43,935
Kidder	66	41,137
LaMoure	1,134	254,434
Logan	6	58,411 $\frac{1}{2}$
McHenry	1,471	369,571
McIntosh		89,269
McKenzie	63	15,924 $\frac{3}{4}$
McLean	16	240,557
Mercer		52,863 $\frac{3}{4}$
Morton		161,938
Nelson	922	274,688
Oliver	32	46,085
Pembina	6,300	332,163
Pierce	125	196,832
Ramsey	346	310,233
Ransom	1,250	184,897
Richland	4,784	295,690
Rolette	255	152,968 $\frac{1}{4}$
Sargent	3,142	151,618
Stark	640	45,651 $\frac{1}{2}$
Steele	334	250,968
Stutsman	117	315,464
Towner	146	273,404
Traill	7,999	277,560
Walsh	5,411	400,566
Ward	8,174 $\frac{1}{2}$	525,241 $\frac{1}{2}$
Wells	802	304,448
Williams	266	58,988 $\frac{7}{8}$
Total	70,611 $\frac{1}{2}$	9,053,947 $\frac{1}{4}$



Poultry and Swine Industry, Hettinger County.

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VALUE OF GARDEN PRODUCE SOLD, 1906.

COUNTY	Value
Adams	
Barnes	\$ 344.00
Benson	1,056.00
Billings	
Bottineau	2,500.00
Bowman	1,000.00
Burleigh	402.00
Cass	1,892.00
Cavalier	772.00
Dickey	823.00
Eddy	380.00
Emmons	360.30
Foster	300.00
Grand Forks	2,281.00
Griggs	774.00
Hettinger	896.00
Kidder	346.00
LaMoure	1,369.00
Logan	57.00
McHenry	3,070.00
McIntosh	645.00
McKenzie	
McLean	3,923.00
Mercer	868.00
Morton	2,051.00
Nelson	730.00
Oliver	823.00
Pembina	512.50
Pierce	88.00
Ramsey	2,109.00
Ransom	1,031.00
Richland	4,397.00
Rolette	548.89
Sargent	903.70
Stark	3,875.00
Steele	608.00
Stutsman	1,245.00
Towner	1,972.00
Traill	1,402.00
Walsh	3,590.00
Ward	6,038.00
Wells	1,380.00
Williams	3,985.35
Total	\$ 61,347.74

VALUE OF POULTRY AND EGGS SOLD IN 1906.

COUNTY	Value
Adams	\$ 11,523.99
Barnes	9,205.00
Benson	
Billings	1,400.00
Bottineau	300.00
Bowman	8,795.00
Burleigh	34,973.00
Cass	11,599.00
Cavalier	20,094.00
Dickey	1,705.00
Eddy	4,348.00
Emmons	1,661.00
Foster	27,378.00
Grand Forks	7,501.00
Griggs	377.00
Hettinger	1,154.00
Kidder	6,898.00
LaMoure	3,031.00
Logan	18,344.00
McHenry	2,930.00
McIntosh	101.00
McKenzie	14,096.00
McLean	2,930.25
Mercer	14,762.00
Morton	14,089.00
Nelson	3,533.00
Oliver	14,029.00
Pembina	1,728.00
Pierce	21,652.00
Ramsey	11,165.00
Ransom	29,822.00
Richland	4,707.43
Rolette	19,251.00
Sargent	4,263.00
Stark	7,399.00
Steele	12,808.00
Stutsman	5,296.00
Towner	29,737.00
Traill	16,133.00
Walsh	32,797.00
Ward	1,837.00
Wells	4,166.40
Williams	
Total	\$ 439,557.08

DAIRY PRODUCTS 1906.

COUNTY	Lbs Cheese Made in Families	Lbs Butter Made in Families	Value of Milk Sold other than to Cheese Fac- tories and Creameries	Value of Milk Sold to Cheese Factories and Creameries or Made into Butter
Adams				
Barnes	20	263,908	\$ 150.00	\$ 869.00
Benson	225	123,176	5,753.00	3,368.00
Billings				
Bottineau		200,000	3,000.00	1,000.00
Bowman				
Burleigh	1,115	84,133	3,160.00	40.00
Cass		419,692	1,702.00	13,397.00
Cavalier	11,000	325,596		150.00
Dickey	48	89,671	13,325.00	18,460.00
Eddy		56,320	162.00	2,300.00
Emmons	160	155,270	150.00	22,481.00
Foster	25	32,195	600.00	1,660.00
Grand Forks	210	367,202	3,150.00	4,760.00
Griggs		183,630	1,100.00	
Hettinger	2,300	39,335	400.00	
Kidder		25,577	65.00	1,166.00
LaMoure	100	187,350	196.00	14,962.00
Logan	185	34,632	55.00	48,940.00
McHenry	115	234,154		
McIntosh	690	122,771		70.15
McKenzie		1,100	54.00	
McLean	205	175,541	68.00	500.00
Mercer	3,850	87,798		245.00
Morton		139,756	9,545.00	144,350.00
Nelson	45	275,330	950.00	
Oliver	200	43,926		14,765.00
Pembina	1,000	347,579	555.00	140.00
Pierce		94,550	146.00	
Ramsey	20	216,576	527.00	5,303.00
Ransom	100	218,375	2,365.00	8,977.00
Richland	2,530	296,078	5,989.00	
Rolette	1,130	149,429	758.00	1,309.00
Sargent		273,175	7,685.00	22,880.00
Stark	2,475	54,690	12,230.00	8,750.00
Steele		178,132		416.00
Stutsman		163,557	1,540.00	3,595.00
Towner	120	107,706		3,200.00
Traill		229,063	50.00	4,039.00
Walsh		331,481	2,163.00	100.00
Ward	1,225	317,927	13,352.00	250.00
Wells	7,500	252,532	4,008.00	95,080.00
Williams		30,854	1,387.00	30.00
Total	36,593	6,929,767	\$ 96,340.00	\$447,552.15

DAIRY PRODUCTS, 1906.

COUNTY	No. Lbs Milk Sold to Cheese Factories	No. Lbs Milk Sold to Creameries	No. Cows Used for Dairying
Adams			
Barnes	258	315	4,122
Benson		600	1,959
Billings			179
Bottineau			3,500
Bowman			
Burleigh	25,000	400	1,899
Cass			4,336
Cavalier		3,250	2,355
Dickey		11,400	3,745
Eddy			877
Emmons		226,151	3,797
Foster		900	325
Grand Forks		20,570	3,555
Griggs			1,738
Hettinger	2,300		445
Kidder		4,000	1,033
LaMoure		10,660	4,482
Logan			6,603
McHenry	2,973	15,098	3,900
McIntosh			
McKenzie			19
McLean			2,907
Mercer	3,675		1,305
Morton		4,310,865	4,807
Nelson			3,566
Oliver		261,596	1,506
Pembina		495	2,669
Pierce			1,261
Ramsey	4,750	200	10,523
Ransom	3,716	9,076	3,470
Richland		360,530	4,710
Rolette	128,194	260	1,859
Sargent			4,466
Stark		92,640	807
Steele	1,500	1,500	2,220
Stutsman			2,621
Towner	50		1,840
Traill			2,717
Walsh			4,150
Ward		1,750	5,310
Wells		9,856	3,465
Williams			296
Total	172,416	5,342,052	115,334

SHEEP AND WOOL, 1906.

COUNTY	No. Sheep Sheared	Lbs Wool Clipped
Adams		
Barnes	598	4,764
Benson	604	2,500
Billings	50,572	354,004
Bottineau	400	2,000
Bowman	20,104	160,832
Burleigh	3,596	23,611
Cass	259	6,362
Cavalier	1,192	2,560
Dickey	924	3,727
Eddy	273	1,154
Emmons	11,961	29,060
Foster	3,000	24,000
Grand Forks	1,137	9,096
Griggs	2,834	5,593
Hettinger	18,065	96,644
Kidder	8,800	45,000
LaMoure	2,716	20,520
Logan	4,710	41,416
McHenry	1,215	1,029
McIntosh	3,946	31,568
McKenzie	17,016	79,400
McLean	417	4,089
Mercer	4,266	16,234
Morton	32,384	169,332
Nelson	726	3,610
Oliver	2,849	17,575
Pembina	3,476	27,688
Pierce	106	1,481
Ramsey	2,078	21,330
Ransom	1,009	3,912
Richland	1,923	7,297
Rolette	5,994	47,952
Sargent	2,678	18,201
Stark	18,030	117,095
Steele	165	214
Stutsman	8,604	68,832
Towner	307	1,365
Traill	1,533	12,264
Walsh	97	291
Ward	1,128	35,523
Wells	4,184	7,323
Williams	101	700
Total	245,977	1,527,148

ORCHARDS AND FRUITS, 1906.

COUNTY	No. Trees in Bearing	No. Trees not Bearing	No. Acres Berries	Value of Fruit Sold	Acres Artificial Forests
Adams					
Barnes	80	2,383	79	\$ 128.00	2,937
Benson	506	822	611	.....	57,957
Billings					
Bottineau	300	600	10	100.00	1,000
Bowman					
Burleigh			9	25.00	160
Cass	581	3,417	223	62.00	778
Cavalier			$\frac{3}{8}$	5.00	2,334
Dickey	367	841	.....	15.00	96
Eddy .....			.....	.....	185 $\frac{1}{4}$
Emmons	25	813	$\frac{7}{8}$	.....	.....
Foster	244	.....	91	.....	.....
Grand Forks	307	678	42	306.00	868
Griggs		57	1 $\frac{7}{8}$	.....	226
Hettinger .....		.....	5 $\frac{3}{4}$	184.00	17 $\frac{1}{2}$
Kidder	100	.....	.....	.....	38
LaMoure	552	3,188	139 $\frac{1}{4}$	93.00	36,590
Logan					
McHenry	1,990	331	229	22.00	366
McIntosh					
McKenzie					
McLean	69	210	81	985.00	30
Mercer .....	.....	2,273	.....	.....	7 $\frac{7}{8}$
Morton	116	1,715	2	25.00	3,968
Nelson	58	234	.....	.....	242
Oliver .....	.....	38	.....	10.00	9 $\frac{1}{2}$
Pembina	106	1,097	223	85.00	119
Pierce	458	627	1 $\frac{1}{2}$	19.00	88 $\frac{1}{2}$
Ramsey	77	356	218	6.00	210 $\frac{1}{2}$
Ransom	901	3,872	506	20.00	13,978
Richland	883	5,455	166 $\frac{7}{8}$	.....	509 $\frac{3}{4}$
Rolette	1,204	12,895	555 $\frac{3}{4}$	589.50	68
Sargent	159	8,177	13 $\frac{1}{4}$	.....	1,749
Stark	76	423	27	32.00	129
Steele	23	1,606	6	83.00	751
Stutsman .....	.....	.....	4	120.00	546
Towner .....	.....	.....	3 $\frac{1}{4}$	.....	253 $\frac{1}{2}$
Traill	205	1,631	10	121.00	3,481
Ward	794	3,466	12 $\frac{1}{2}$	8.00	562
Walsh	413	1,363	112 $\frac{1}{2}$	176.00	640
Wells	500	907	2,667	70.00	2,541
Williams .....	.....	.....	1 $\frac{1}{4}$	10.75	45 $\frac{1}{4}$
Total	11,094	59,475	6,040	\$ 3,041.25	133,491 $\frac{1}{2}$

LIVE STOCK, 1907.

County	Horses	Mules	Cattle	Sheep	Hogs
Adams					
Barnes	12,696	93	14,453	617	5,567
Benson	7,627	108	8,339	604	3,672
Billings	10,138	24	23,740	50,572	485
Bottineau	16,500	320	13,500	400	3,000
Bowman	885	4	4,943	20,104	20
Burleigh	5,752	61	15,931	5,986	2,967
Cass	16,208	211	14,850	2,518	10,415
Cavalier	11,096	127	131	910	2,907
Dickey	16,563	59	19,711	1,744	9,418
Eddy	4,089	127	5,626	261	467
Emmons	9,097	35	24,098	7,747	6,267
Foster	2,984	83	4,096	1,140	1,610
Grand Forks	14,473	303	13,966	1,052	5,517
Griggs	7,466	62	6,667	2,584	3,116
Hettinger	3,625	36	4,705	18,595	1,977
Kidder	5,579	45	11,297	8,564	507
La Moure	8,486	110	15,248	1,410	4,643
Logan	5,396	31	13,888	4,451	2,889
McHenry	15,113	282	17,013	1,215	3,695
McIntosh	6,603	36	16,124	4,517	18,555
McKenzie	6,880	30	20,190	17,459	280
McLean	11,822	59	15,288	532	4,235
Mercer	4,386	14	10,481	9,263	2,737
Morton	10,512	40	26,204	19,574	6,740
Nelson	11,087	409	12,276	726	4,096
Oliver	3,871	32	11,205	2,612	3,323
Pembina	10,747	34	9,608	3,797	2,684
Pierce	8,989	70	8,844	136	2,598
Ramsey	10,496	276	10,220	2,287	4,076
Ransom	6,774	60	14,535	1,634	7,784
Richland	10,381	119	19,878	1,164	13,105
Rolette	6,880	136	7,369	893	1,550
Sargent	6,808	55	17,788	1,608	10,958
Stark	5,638	11	11,338	19,517	1,718
Steele	7,846	143	7,439	570	2,121
Stutsman	12,039	142	15,321	4,622	1,996
Towner	8,429	426	6,846	367	5,319
Traill	9,656	371	8,408	1,729	4,861
Walsh	12,892	32	12,923	449	5,111
Ward	23,613	436	22,471	1,724	7,422
Wells	14,825	151	5,905	4,184	2,280
Williams	3,172	53	3,250	1,577	618
Total	388,119	5,256	526,112	231,385	182,806

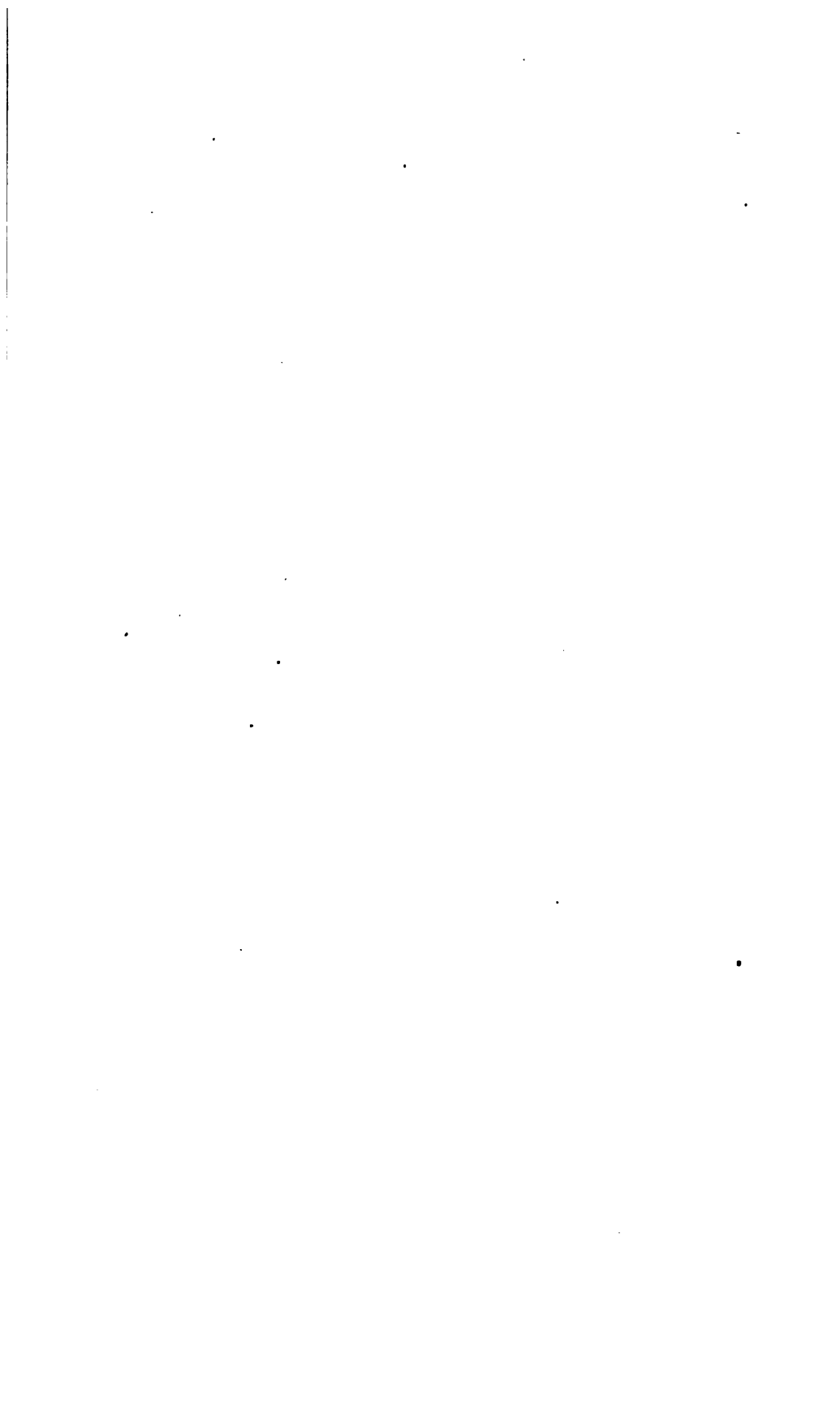
LIVE STOCK, 1906.

County	Value of Animals Fattened and Killed for Home Use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Out- side the State	Value of Horses Sold at Markets Outside State	Value of all Kinds Stock Brought Into State
Adams	\$	\$	\$	\$
Barnes	93,160.00	55,018.00	.....	7,980.00
Benson	55,587.00	15,058.00	.....	2,475.00
Billings	1,780.00	121,553.00	61,000.00	22,308.00
Bottineau	60,000.00	90,000.00	.....	10,000.00
Bowman . . . . .	.....	.....	.....	.....
Burleigh	68,022.00	29,890.00	3,600.00	8,337.00
Cass	145,418.10	65,995.00	4,650.00	11,505.00
Cavalier	116,647.00	10,635.00	850.00	2,585.00
Dickey	36,816.00	216,266.00	14,407.00	15,295.00
Eddy	40,751.00	33,774.00	.....	5,800.00
Emmons	25,000.00	145,345.00	6,602.00	3,291.00
Foster	23,168.00	23,992.00	.....	700.00
Grand Forks	112,545.00	29,058.00	3,470.00	18,050.00
Griggs	58,430.00	37,038.00	2,080.00	15,350.00
Hettinger	11,707.00	29,556.00	3,210.00	45,724.00
Kidder	11,135.00	57,181.00	2,105.00	7,490.00
LaourMe	67,443.00	393,146.00	5,060.00	26,715.00
Logan	46,682.00	61,122.00	.....	11,554.00
McHenry	95,031.00	83,969.00	2,540.00	10,757.00
McIntosh	57,543.00	47,097.00	.....	.....
McKenzie	801.00	141,994.00	.....	40,993.00
McLean	15,995.00	109,780.00	6,195.00	7,306.00
Mercer	32,483.00	41,966.00	.....	.....
Morton	71,302.00	279,751.00	200.00	7,150.00
Nelson	79,364.00	37,870.00	3,255.00	750.00
Oliver	26,097.00	61,256.00	.....	9,665.00
Pembina	101,434.00	17,587.00	.....	175.00
Pierce	309,711.00	6,280.00	875.00	1,170.00
Ramsey	89,253.00	42,632.00	350.00	250.00
Ransom	45,005.00	118,391.00	8,707.00	3,240.00
Richland	91,789.00	10,340.00	8,865.00	5,954.00
Rolette	59,055.00	78,464.00	675.00	300.00
Sargent	38,195.00	941,779.00	12,110.00	6,790.00
Stark	37,640.00	73,500.00	90,000.00	74,600.00
Steele	77,230.00	19,912.00	7,851.00	4,660.00
Stutsman	86,605.00	165,508.00	.....	12,300.00
Towner	64,885.00	9,413.00	16,211.00	3,120.00
Traill	78,337.00	5,000.00	1,155.00	1,034.00
Walsh	120,998.00	31,268.00	2,386.00	500.00
Ward	120,207.00	25,054.00	40.00	34,503.00
Wells	86,130.00	166,300.00	1,493.00	41,168.00
Williams	10,845.75	40,196.00	.....	510.00
Total . . .	\$2,740,226.85	\$3,969,934.00	\$269,942.00	\$482,054.00



DICKINSON VIEWS

1. Farmers Bringing Lignite Coal to Dickinson. 2. Wool Market Day.
3. Loading Lumber for Miami Valley Ranch. 4. Lehigh Coal Mines.



COAL MINES, 1906.

COUNTY	Number of Mines	Number of Tons Mined	Number of Men Employed	Average Wages Paid	Average Cost per Ton Mined
Adams	..	..	..	..	..
Barnes	..	..	..	..	..
Benson	..	..	..	..	..
Billings	..	..	..	..	..
Bottineau	..	..	..	..	..
Bowman	..	..	..	..	..
Burleigh	6	84,176	90	..	..
Cass	..	..	..	..	..
Cavalier	..	..	..	..	..
Dickey	..	..	..	..	..
Eddy	..	..	..	..	..
Emmons	..	..	..	..	..
Foster	..	..	..	..	..
Grand Forks	..	..	..	..	..
Griggs	..	..	..	..	..
Hettinger	3	630	..	..	.58 1-3
Kidder	..	..	..	..	..
La Moure	..	..	..	..	..
Logan	..	..	..	..	..
McHenry	..	..	..	..	..
McIntosh	..	..	..	..	..
McKenzie	3	270	6	1.50	.65
McLean	10	10,906	43	3.75	.95
Mercer	..	..	..	..	..
Morton	4	38,842	28	..	.90
Nelson	..	..	..	..	..
Oliver	2	1,500	..	..	.55
Pembina	..	..	..	..	..
Pierce	..	..	..	..	..
Ramsev	..	..	..	..	..
Ransom	..	..	..	..	..
Richland	..	..	..	..	..
Rolette	..	..	..	..	..
Sargent	..	..	..	..	..
Stark	2	56,900	75	3.75	1.25
Steele	..	..	..	..	..
Stutsman	..	..	..	..	..
Towner	..	..	..	..	..
Traill	..	..	..	..	..
Walsh	..	..	..	..	..
Ward	25	319,557	152	..	1.66
Wells	..	..	..	..	..
Williams	4	2,700	10	4.00	1.34
Total	59	515,481	404	3.17	.....

VITAL, 1907.

COUNTY	No. Males Living on Farms	No. Females Living on Farms	No. of Births	No. of Deaths
Adams . . . . .	.....	.....	.....	.....
Barnes	4,335	3,303	198	48
Benson	2,670	1,934	156	23
Billings	200	50	30	8
Bottineau	6,000	5,000	244	58
Bowman . . . . .	.....	.....	.....	.....
Burleigh	1,755	1,380	61	.....
Cass	6,008	14,323	164	43
Cavalier	5,063	4,200	668	174
Dickey	2,222	1,831	66	13
Eddy	1,413	1,033	65	16
Emmons	2,904	2,499	113	30
Foster	683	533	179	59
Grand Forks	4,566	3,638	161	45
Griggs	2,058	1,467	89	19
Hettinger	1,843	1,580	131	138
Kidder	1,065	892	46	11
LaMoure	2,912	2,272	151	42
Logan	2,494	2,360	284	55
McHenry	4,719	3,719	328	66
McIntosh	1,671	1,612	107	50
McKenzie	489	323	15	2
McLean	2,190	3,307	237	106
Mercer	926	746	107	16
Morton	4,287	3,683	301	52
Nelson	3,351	2,506	138	48
Oliver	1,424	1,102	119	17
Pembina	3,579	2,955	112	51
Pierce	2,154	1,513	175	38
Ramsey	3,345	2,553	138	51
Ransom	2,636	2,155	114	28
Richland	4,052	3,516	335	53
Rolette	2,366	1,951	196	35
Sargent	2,444	1,969	.....	.....
Stark	1,434	1,315	154	131
Steele	2,293	1,761	100	27
Stutsman	3,719	2,995	196	44
Towner	2,449	1,911	99	42
Traill	3,576	2,490	99	28
Walsh	6,078	5,157	267	83
Ward	9,103	7,843	644	121
Wells	3,000	1,261	259	119
Williams	1,978	781	72	26
Total	121,454	107,419	7,118	1,916

FARM LABOR, 1906.

COUNTY	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid per Month	Total Wages Paid
Adams					
Barnes	1,188	20.61	268	4.50	\$ 5,836.86
Benson	779	30.00	149	16.00	441,876.00
Billings	200	35.00	50	15.00	3,500.00
Bottineau	1,429	34.00	160	15.00	327,981.00
Bowman					
Burleigh	158	32.75	8	15.00	119,147.00
Cass	1,612	31.87	418	18.32	700,599.00
Cavalier	871	32.71	136	17.65	125,117.00
Dickey	482	28.00	56	16.00	90,068.00
Eddy	334	21.00	31	16.00	89,314.00
Emmons	182	21.98	15	17.66	41,479.00
Foster	301	19.50	33	17.00	85,587.00
Grand Forks	1,436	30.00	255	15.00	496,831.00
Griggs	654	32.27	123	16.20	248,090.00
Hettinger	111	26.00	13	12.00	18,656.00
Kidder	152	32.00	28	15.00	27,797.00
LaMoure	912	40.00	132	17.03	222,860.00
Logan	132	25.65	44	6.09	28,591.00
McHenry	959	23.00	169	10.00	177,063.00
McIntosh	75	56.00	.....	.....	50,039.00
McKenzie	35	31.57	1	12.00	6,775.00
McLean	362	28.75	74	13.50	83,625.00
Mercer	92	23.40	46	11.20	17,920.50
Morton	464	28.00	28	16.00	54,629.00
Nelson	970	30.00	139	14.00	302,224.00
Oliver	110	21.28	21	13.66	18,565.00
Pembina	1,351	28.00	199	16.00	243,436.00
Pierce	343	28.00	47	16.00	63,288.00
Ramsey	1,103	20.59	151	18.00	353,160.00
Ransom	858	30.00	102	16.00	170,420.00
Richland	667	27.00	107	12.00	236,913.00
Rolette	578	31.80	28	19.95	78,804.00
Sargent	478	27.00	36	12.50	214,296.00
Stark	107	35.00	23	10.00	18,900.00
Steele	867	30.00	284	15.00	181,432.00
Stutsman	536	37.04	50	23.52	197,098.00
Towner	830	32.00	102	14.00	209,947.00
Trail	988	32.00	285	18.00	515,431.00
Walsh	1,177	28.00	158	16.00	320,154.00
Ward	1,810	32.02	290	15.80	366,284.00
Wells	1,600	35.00	1,261	20.00	148,051.00
Williams	137	19.53	23	16.26	17,353.00
Total	27,430		5,543		\$7,119,137.36

VALUATION

THE VALUATION OF EACH CLASS OF PROPERTY IN
THE COUNTIES NAMED AS LEFT BY THE STATE
BOARD OF EQUALIZATION FOR THE YEAR 1907.

ADAMS

Personal	\$ 279,399.00
Real	306,312.00
Total	\$ 585,711.00

BARNES

Personal	\$ 1,379,855.00
Real	5,302,482.00
Express	9,522.00
Telegraph	10,660.83
Railroads	1,162,932.50
Telephone	45,215.00
Street railway	3,000.00
Total	\$ 7,913,667.33

BENSON

Personal	\$ 1,164,520.00
Real	3,013,733.00
Express	7,475.00
Telegraph	8,556.48
Railroads	1,103,991.50
Telephone	14,350.00
Total	\$ 5,312,625.98

BILLINGS

Personal	\$ 872,344.00
Real	1,722,629.00
Express	3,401.00
Telegraph	4,081.00
Railroads	423,151.00
Telephone	1,670.00
Total	\$ 3,027,276.00

BOTTINEAU

Personal	\$ 1,589,844.00
Real	4,723,627.00
Express	10,520.75
Telegraph	5,066.30
Railroads	1,070,180.00
Telephone	15,700.00
Total	\$ 7,414,938.05

BOWMAN

Personal	\$ 139,647.00
Real	378,285.00
Total	\$ 517,932.00

BURLEIGH

Personal	\$ 954,638.00
Real	2,915,042.00
Express	7,019.00
Telegraph	7,782.00
Railroads	867,706.00
Telephone	13,315.00
Total	\$ 4,765,502.00

CASS

Personal	\$ 3,091,691.00
Real	11,560,417.00
Express	19,503.00
Telegraph	22,128.00
Railroads	2,112,147.00
Telephone	109,815.00
Street railway	22,320.00
Total	\$ 16,938,021.00

CAVALIER

Personal	\$ 1,209,473.00
Real	4,380,482.00
Express	7,542.00
Telegraph	5,775.00
Railroads	738,520.00
Telephone	13,200.00
Total	\$ 6,354,992.00

DICKEY

Personal	\$ 804,224.00
Real	3,061,622.00
Express	9,340.55
Telegraph	9,563.00
Railroads	917,739.00
Telephone	11,530.00
Total	\$ 4,814,018.55

EDDY

Personal	\$ 446,859.00
Real	1,514,549.00
Express	1,466.00
Telegraph	1,756.00
Railroads	131,291.00
Telephone	6,995.00
Total	\$ 2,102,916.00

EMMONS

Personal	\$ 827,813.00
Real	1,494,887.00
Express	5,063.50
Telegraph	5,987.88
Railroads	480,261.50
Telephone	3,000.00
Total	\$ 2,817,012.88

FOSTER

Personal	\$ 556,252.00
Real	1,928,620.00
Express	3,549.07
Telegraph	4,005.36
Railroads	427,308.00
Telephone	9,555.00
Total	\$ 2,929,289.43

GRAND FORKS

Personal	\$ 2,117,714.00
Real	8,176,376.00
Express	11,540.50
Telegraph	13,859.73
Railroads	1,279,876.50
Telephone	102,365.00
Street railway	3,750.00
Total	\$ 11,705,481.73

GRIGGS

Personal	\$ 872,044.00
Real	2,520,551.00
Express	2,773.05
Telegraph	3,327.66
Railroads	246,523.00
Telephone	11,030.00
Total	\$ 3,656,248.71

HETTINGER

Personal	\$ 396,314.00
Real	1,013,514.00
Total	\$ 1,409,828.00

KIDDER

Personal	\$ 502,590.00
Real	1,603,851.00
Express	2,260.55
Telegraph	2,712.96
Railroads	284,568.00
Telephone	5,192.00
Total	\$ 2,401,174.51

LA MOURE

Personal	\$ 899,309.00
Real	3,206,845.00
Express	7,865.60
Telegraph	9,337.31
Railroads	718,891.50
Telephone	11,533.00
Total	\$ 4,853,783.41

LOGAN

Personal	\$ 473,200.00
Real	1,188,987.00
Express	2,625.40
Telegraph	2,698.21
Railroads	325,650.00
Telephone	770.00
Total	\$ 1,993,930.61

M'HENRY

Personal	\$ 1,478,992.00
Real	3,389,766.00
Express	7,839.00
Telegraph	6,034.30
Railroads	1,052,905.00
Telephone	11,430.00
Total	\$ 5,946,966.30

M'INTOSH

Personal	\$ 705,721.00
Real	1,457,389.00
Express	2,989.75
Telegraph	3,098.00
Railroads	369,790.00
Telephone	1,500.00
Total	\$ 2,540,487.75

M'KENZIE

Personal	\$ 598,432.00
Real	289,932.00
Telephone	1,500.00
Total	\$ 889,855.00

M'LEAN

Personal	\$ 1,543,784.00
Real	3,199,427.00
Express	5,949.60
Telegraph	9,268.41
Railroads	1,019,359.00
Telephone	8,540.00
Total	\$ 5,786,328.01

MERCER

Personal	\$ 334,234.00
Real	754,459.00
Total	\$ 1,088,693.00

MORTON

Personal	\$ 1,438,379.00
Real	3,409,066.00
Express	5,702.00
Telegraph	6,844.00
Railroads	729,502.00
Telephone	7,987.00
Total	\$ 5,597,480.00

NELSON

Personal	\$ 1,003,082.00
Real	2,873,473.00
Express	2,856.75
Telegraph	2,400.30
Railroads	320,070.00
Telephone	19,080.00
Total	\$ 4,220,962.05

OLIVER

Personal	\$ 228,412.00
Real	612,275.00
Telephone	780.00
Total	\$ 841,467.00

PEMBINA

Personal	\$ 1,137,727.00
Real	3,893,156.00
Express	7,503.52
Telegraph	8,946.63
Railroads	753,170.50
Telephone	23,910.00
Total	\$ 5,824,413.65

PIERCE

Personal	\$ 738,368.00
Real	294,667.00
Express	3,650.00
Telegraph	3,136.00
Railroads	381,105.00
Telephone	4,965.00
Total	\$ 3,425,891.50

RAMSEY

Personal	\$ 1,273,313.00
Real	3,668,818.00
Express	5,745.00
Telegraph	4,259.40
Railroads	755,918.90
Telephone	19,355.00
Total	\$ 5,727,409.30

RANSOM

Personal	\$ 710,086.00
Real	2,395,112.00
Express	4,302.60
Telegraph	4,895.16
Railroads	488,068.50
Telephone	13,445.00
Total	\$ 3,615,909.26

RICHLAND

Personal	\$ 1,503,449.00
Real	6,668,838.00
Express	15,916.00
Telegraph	17,093.00
Railroads	1,696,642.00
Telephone	27,470.00
Total	\$ 9,929,408.00

ROLETTE

Personal	\$ 765,142.00
Real	2,173,797.00
Express	4,707.75
Telegraph	2,847.60
Railroads	482,270.00
Telephone	1,980.00
Total	\$ 3,430,744.35

SARGENT

Personal	\$ 820,692.00
Real	2,181,212.00
Express	8,240.70
Telegraph	10,916.96
Railroads	909,679.00
Telephone	12,175.00
Total	\$ 3,942,915.66

STARK

Personal	\$ 693,775.00
Real	2,236,418.00
Express	4,413.82
Telegraph	5,297.49
Railroads	563,455.00
Telephone	6,900.00
Total	\$ 3,510,259.31

STEELE

Personal	\$ 720,617.00
Real	2,771,849.00
Express	2,691.00
Telegraph	3,229.20
Railroads	237,795.00
Telephone	14,070.00

Total \$ 3,750,251.20

STUTSMAN

Personal	\$ 1,371,649.00
Real	5,859,949.00
Express	9,719.72
Telegraph	11,469.61
Railroads	1,094,948.00
Telephone	29,410.00

Total \$ 8,377,145.33

TOWNER

Personal	\$ 899,801.00
Real	3,209,705.00
Express	3,707.00
Telegraph	5,267.00
Railroads	636,548.00
Telephone	4,000.00

Total \$ 4,759,028.00

TRAILL

Personal	\$ 1,073,831.00
Real	4,280,579.00
Express	6,974.25
Telegraph	8,369.10
Railroads	702,815.00
Telephone	40,650.00

Total \$ 6,113,218.35

WALSH

Personal	\$ 1,386,991.00
Real	5,746,249.00
Express	10,772.47
Telegraph	12,174.07
Railroads	1,172,832.50
Telephone	32,470.00

Total \$ 8,361,489.04

WARD

Personal	\$ 4,181,895.00
Real	7,601,350.00
Express	17,243.75
Telegraph	17,738.20
Railroads	2,517,710.00
Telephone	21,380.00

Total \$ 14,357,316.95

WELLS

Personal	\$ 992,664.00
Real	3,596,818.00
Express	4,909.32
Telegraph	5,418.70
Railroads	620,722.00
Telephone	7,835.00
Total	\$ 5,228,367.02

WILLIAMS

Personal	\$ 1,363,779.00
Real	1,390,823.00
Express	6,176.25
Telegraph	7,049.20
Railroads	777,130.00
Telephone	6,730.00
Total	\$ 3,551,687.45

DUNN (UNORGANIZED)

Personal	\$ 199,335.00
Real	665,103.00
Total	\$ 864,438.00

OLD WILLIAMS' (UNORGANIZED)

Personal	\$ 65,747.00
Real	401,612.00
Total	\$ 467,359.00
Grand total	\$213,663,839.67

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1908

Number of farms in North Dakota	59,690
Number of acres under cultivation	10,509,414 $\frac{3}{4}$
Number of acres in farms (cultivated and uncultivated)	19,109,103 $\frac{3}{4}$

AGRICULTURAL PRODUCTS FOR 1907.

Crop	Acres Sown (Planted)	Acres Harvested	Bushels Harvested (Tons Cut)
Wheat	5,263,727	4,876,181	54,830,416
Oats	1,306,190 $\frac{1}{2}$	1,224,838 $\frac{1}{2}$	29,283,520
Barley	808,992	749,098 $\frac{1}{2}$	13,534,458
Flax	1,390,181	1,310,084 $\frac{3}{4}$	10,977,111
Rye	32,894 $\frac{1}{2}$	30,453 $\frac{1}{2}$	333,274 $\frac{1}{2}$
Speltz	101,811 $\frac{1}{2}$	98,906 $\frac{1}{2}$	1,536,068 $\frac{1}{2}$
Corn	80,419 $\frac{1}{4}$	*8,855 $\frac{3}{4}$	472,715 $\frac{1}{4}$
Potatoes	22,736 $\frac{3}{4}$	.....	1,779,850 $\frac{1}{2}$
Roots of all kinds	605 $\frac{1}{4}$	.....	39,059
Millet and Hungarian	58,285 $\frac{1}{2}$	.....	76,307
Brome grass	25,776 $\frac{1}{2}$	.....	26,731 $\frac{1}{2}$
Other tame hay	97,670	.....	155,234 $\frac{1}{4}$

*Fodder.

Tons of prairie hay cut, 1,590,624.

ACREAGE LOST BY HAIL IN 1907.

Total loss	161,297
Three-fourths loss	129,399
One-half loss	182,839
One-fourth loss	155,476

CROP ACREAGE FOR 1908.

Wheat	5,592,630
Oats	1,607,761 $\frac{1}{2}$
Barley	1,081,094 $\frac{1}{2}$
Flax	945,728 $\frac{1}{2}$
Rye	40,746 $\frac{1}{2}$
Corn	120,815
Potatoes	28,161 $\frac{1}{4}$
Roots of all kinds	1,742 $\frac{1}{2}$
Millet and Hungarian (hay)	61,168 $\frac{1}{2}$
Brome grass	18,748 $\frac{1}{2}$
Other tame grasses	138,623 $\frac{3}{4}$

Total acreage of crop (including tame grasses)	9,637,220 $\frac{1}{2}$
Value of garden products sold in 1907	\$ 87,803.49
Value of poultry and eggs sold in 1907	1,348,802.15

DAIRY PRODUCTS FOR 1907.

Number of pounds cheese (made in families)	49,097
Number of pounds butter (made in families)	6,191,863
Value of milk sold, other than to cheese factories and creameries	\$ 154,732.91
Value of milk sold to cheese factories and creameries, or made into butter by such factories	\$ 228,266.05
Number of pounds of milk sold to cheese factories	131,984
Number of pounds of milk sold to creameries	4,075,280
Number of pounds of cream sold to creameries	2,698,878
Number of cows used for dairying in 1908	111,889

Number of sheep sheared in 1907	244,208
Number of pounds wool clipped in 1907	1,726,462
Number of fruit trees in bearing	14,262
Number of fruit trees not in bearing	59,897
Number of acres of berries of all kinds	8,075½
Value of fruit raised and marketed in 1907	\$ 4,641.96
Number of acres of artificial forests, in the state, one year old or over	115,521¾

NUMBER OF LIVE STOCK IN 1908.

Horses	406,361
Mules	6,238
Cattle	561,049
Sheep	227,361
Hogs	183,420

Value of all animals fattened and killed for home use, and sold to local butchers in 1907	\$ 3,248,081.30
Value of all cattle, hogs and sheep sold for market, and shipped outside the state in 1907	2,934,586.55
Value of all horses sold to markets outside the state in 1907 ..	244,817.60
Value of all kinds of stock brought into the state in 1907....	567,887.25

COAL MINES, 1907.

Number of mines operated	46
Number of tons of coal mined	303,025
..Number of men employed in mines	310
Total wages paid coal miners	\$ 143,483.00

VITAL STATISTICS, 1907.

Number of males living on or employed on farms.....	148,651
Number of females living on, or employed on farms.....	101,402

FISCAL YEAR ENDING JUNE 30, 1908.

Number of births	6,915
Number of deaths	1,801

FARM LABOR STATISTICS FOR 1907.

Number of male employes	30,353
Number of female employes	5,097
Amount of wages paid during the year	\$8,106,800.00

NUMBER OF FARMS AND ACREAGE, 1908.

COUNTY	Total No. Farms	Total No. Acres Under Cultivation	Total No. of Acres in Farms Cultivated and Uncultivated
Adams	1,698	24,538 $\frac{1}{4}$	274,157 $\frac{1}{2}$
Barnes	1,525	501,374	664,932
Benson	2,008	274,301	710,520
Billings	497	25,225	87,081
Bottineau	3,290	600,000	1,053,000
Bowman	592	6,520	94,400
Burleigh	895	90,554	234,494
Cass	1,700	631,960	712,184
Cavalier	3,000	358,979	576,062
Dickey	850	352,060	383,802
Dunn	634	31,864	235,073
Eddy	647	154,597	247,937
Emmons	1,298	161,584	582,711
Foster	373	257,495	166,400
Grand Forks	1,661	498,277	623,988
Griggs	752	246,780	435,558
Hettinger	1,111	74,538	231,020
Kidder	1,250	44,580	120,008
LaMoure	800	310,401	464,056 $\frac{1}{2}$
Logan	1,246	89,317	259,288
McHenry	2,625	458,300	1,000,060
McIntosh	496	93,841	263,802
McKenzie	1,309	25,093	209,492
McLean	2,795	303,013	534,928
Mercer	736	52,756	155,932
Morton	1,813	123,229	585,773
Nelson	1,113	316,022	418,669
Oliver	651	49,176	193,152
Pembina	1,431	407,520	517,106
Pierce	1,049	213,858	304,247
Ramsey	1,266	359,522	517,430
Ransom	944	200,097	288,735
Richland	1,485	395,256	880,452
Rolette	956	167,290	266,925
Sargent	967	183,550	282,506
Stark	407	47,620	156,720
Steele	805	275,897	339,095
Stutsman	1,575	384,356	620,077
Towner	1,036	332,032	383,794
Traill	1,300	379,279	422,444
Walsh	2,338	476,868	633,289
Ward	4,625	313,369	1,374,829
Wells	954	147,871	422,609 $\frac{1}{2}$
Williams	1,187	68,655 $\frac{1}{2}$	180,365 $\frac{1}{4}$
Total	59,690	10,509,414 $\frac{3}{4}$	19,109,103 $\frac{3}{4}$

WHEAT, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	289½	242½	2,049	8.40
Barnes	257,837	254,345	3,297,765	12.97
Benson	195,581	195,511	1,812,675	9.27
Billings	1,248	1,248	53,186	42.68
Bottineau	360,000	355,000	3,550,000	10.00
Bowman	200	200	4,000	20.00
Burleigh	38,396	38,038	351,074	9.23
Cass	299,293	279,141	3,840,095	13.76
Cavalier	216,180	192,499	1,622,397	8.43
Dickey	112,533	112,533	1,147,490	10.20
Dunn	11,794	11,763	185,415	15.76
Eddy	76,468	74,341	697,809	9.39
Emmons	77,424	77,424	684,842	8.85
Foster	69,031	58,715	586,575	9.99
Grand Forks	223,269	205,253	2,736,123	13.05
Griggs	120,380	113,314	1,562,478	13.79
Hettinger	16,350	15,894	139,463	8.78
Kidder	14,219	11,287	97,385	8.63
La Moure	156,790	156,790	1,961,558	12.52
Logan	35,753	34,001	237,188	6.98
McHenry	214,179	206,887	1,832,754	8.86
McIntosh	69,307	69,307	625,822	9.03
McKenzie	1,300½	1,269½	14,250	11.23
McLean	107,384	106,270	794,031	7.47
Mercer	52,162	23,984	146,162	6.10
Morton	72,185	72,068	96,018	.....
Nelson	148,887	136,457	2,756,042	20.19
Oliver	25,412	24,112	161,506	6.70
Pembina	205,572	199,200	3,228,650	16.21
Pierce	130,908	106,557	1,178,279	11.06
Ramsey	194,756	180,287	2,052,341	11.39
Ransom	111,141	110,991	1,603,988	14.45
Richland	156,300	15,575	191,734	12.31
Rolette	89,783	89,616	835,313	9.32
Sargent	79,688	79,529	1,197,953	15.07
Stark	23,700	23,200	272,500	11.75
Steele	129,276	124,290	1,837,982	14.79
Stutsman	192,809	174,776	1,553,016	8.89
Towner	185,623	178,609	1,662,366	9.31
Traill	160,399	159,069	2,119,359	13.32
Walsh	244,969	240,554	2,971,081	12.85
Ward	216,560	203,350	1,459,803	7.14
Wells	145,745	143,156	1,989,272	9.71
Williams	22,646	19,528	280,627	14.37
Total	5,263,727	4,876,181	54,830,416	11.25

OATS, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	1,446½	1,356½	22,835	17.00
Barnes	53,469	52,337	1,499,508	29.00
Benson	30,900	29,684	660,331	12.62
Billings	5,611	5,697	156,619	27.93
Bottineau	77,000	76,000	1,900,000	25.00
Bowman	244	232	7,582	32.64
Burleigh	11,743	11,673	265,266	22.73
Cass	71,308	59,665	1,737,443	29.12
Cavalier	59,645	56,990	1,321,168	23.18
Dickey	19,554	19,554	544,956	27.87
Dunn	7,359	7,232	131,404	18.17
Eddy	21,941	21,557	447,127	20.74
Emmons	12,966	12,966	314,341	24.24
Foster	19,009	18,219	356,961	19.59
Grand Forks	62,058	61,384	1,653,358	26.90
Griggs	29,052	28,476	786,951	27.57
Hettinger	11,321	10,944	196,830	17.99
Kidder	6,007	5,812	95,801	16.44
La Moure	26,553	26,553	732,086	27.58
Logan	4,546	3,817	76,596	20.07
McHenry	59,938	59,036	1,079,799	18.32
McIntosh	4,428	4,428	72,125	16.29
McKenzie	4,578	4,409	91,558	20.77
McLean	41,975	41,706	818,559	19.67
Mercer	9,610	9,105	136,133	14.95
Morton	24,945	24,927	687,814	27.55
Nelson	37,881	37,449	988,670	26.13
Oliver	11,535	11,304	172,121	15.21
Pembina	48,652	47,590	1,273,562	26.76
Pierce	27,107	39,077	519,487	13.30
Ramsey	35,717	34,341	813,929	23.71
Ransom	30,425	30,328	770,511	25.40
Richland	59,978	58,098	1,295,265	22.29
Rolette	24,182	23,140	565,890	24.40
Sargent	18,487	18,179	516,872	28.43
Stark	12,900	12,200	426,750	34.98
Steele	39,954	39,259	870,427	22.17
Stutsman	49,672	52,661	1,066,615	20.25
Towner	38,070	37,402	885,025	23.67
Trall	39,995	34,416	999,097	29.03
Walsh	54,882	54,214	1,510,282	27.86
Ward	69,412	5,813	83,123	14.30
Wells	17,947	17,924	448,028	25.00
Williams	11,988	17,772	284,715	16.02
Total	1,306,190½	1,224,838½	29,283,520	23.36



STATE FAIR AT FARGO

1. Cattle Barn. 2. Scene on Grounds. 3. Judging Pavilion.

BARLEY, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	7	7	76	10.85
Barnes	39,416	38,911	785,336	20.18
Benson	21,681	21,502	343,403	15.98
Billings	247	247	5,576	22.57
Bottineau	19,000	19,000	304,000	16.00
Bowman	20	20	609	30.45
Burleigh	789½	768½	10,072	13.10
Cass	50,743	45,975	918,486	19.98
Cavalier	51,362	47,342	673,073	14.21
Dickey	21,503	21,503	392,153	18.23
Dunn	658	610	7,635	12.52
Eddy	6,800	6,590	95,781	14.53
Emmons	4,651	4,651	85,881	18.47
Foster	26,373	14,044	186,337	13.27
Grand Forks	49,422	43,742	784,574	17.94
Griggs	14,338	14,205	253,847	17.87
Hettinger	318	315	4,305	13.66
Kidder	3,000	2,700	65,300	24.18
La Moure	21,912	21,912	423,427	19.32
Logan	3,312	3,193	43,451	13.60
McHenry	13,369	13,054½	160,394	12.29
McIntosh	3,796	3,796	58,157	15.32
McKenzie	250½	186½	2,768	14.84
McLean	5,882	3,495	50,060	14.32
Mercer	343	338	3,689	10.91
Morton	1,207	1,205	24,733	20.52
Nelson	22,122	20,213	341,749	16.90
Oliver	794	643	7,668	11.92
Pembina	64,266	62,449	1,269,068	20.34
Pierce	10,120	7,897	157,144	19.90
Ramsey	34,509	30,493	461,299	15.13
Ransom	13,682	13,589	279,475	25.66
Richland	33,987	30,568	574,081	15.51
Rolette	12,858	12,858	202,444	15.74
Sargent	13,699	13,211	283,815	21.48
Stark	670	670	6,300	9.40
Steele	24,456	22,915	384,472	16.78
Stutsman	23,745	21,523	426,282	19.80
Townes	25,584	24,913	376,429	15.10
Traill	27,899	26,356	504,402	19.17
Walsh	45,072	44,109	787,888	17.81
Ward	76,167	68,560	1,473,175	21.49
Wells	18,312	18,261	305,280	16.71
Williams	650	558	10,364	18.57
Total	808,992	749,098½	13,534,458	18.05

FLAX, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	2,596½	2,430¼	16,578	6.82
Barnes	57,566	54,075	534,530	9.87
Benson	35,406	34,369	289,032	8.40
Billings	7,247	7,112	82,107	11.54
Bottineau	84,000	81,000	648,000	8.00
Bowman	214	214	1,799	8.41
Burleigh	20,600	19,041	146,001	7.68
Cass	54,031	49,725	430,193	8.65
Cavalier	15,300	13,623	77,276	5.67
Dickey	33,873	33,873	272,828	8.05
Dunn	4,432	4,183	19,557	4.67
Eddy	22,515	21,707	169,761	7.35
Emmons	26,564	26,564	222,112	8.36
Fister	12,445	11,206	79,460	7.09
Grand Forks	69,340	65,541	640,432	9.78
Griggs	39,607	37,854	353,365	9.34
Hettinger	11,621	10,989	58,022	5.28
Kidder	16,000	15,390	120,273	7.81
LaoMure	51,608	50,608	496,225	9.81
Logan	23,321	20,787	169,831	8.17
McHenry	75,718	61,519½	425,655	6.98
McIntosh	13,863	13,863	114,856	8.29
McKenzie	6,178	5,708½	35,240	6.17
McLean	84,800	81,379	555,635	6.82
Mercer	9,430	9,365	42,502	4.53
Morton	15,585	15,571	140,269	9.08
Nelson	52,481	47,515	510,451	11.47
Oliver	7,836	7,698	31,450	4.90
Pembina	12,250	12,085	128,961	10.67
Pierce	28,042	24,571	174,017	7.49
Ramsey	32,661	31,671	271,351	8.57
Ransom	18,989	18,623	164,139	8.81
Richland	31,614	31,078	180,646	5.81
Rolette	19,534	19,467	121,094	6.22
Sargent	15,962	15,604	167,382	10.72
Stark	1,690	1,690	10,100	5.98
Steele	42,190	40,995	427,186	10.42
Stutsman	70,433	63,379	485,840	7.66
Towner	45,504	43,564	300,254	6.89
Traill	35,495	31,195	454,167	14.55
Walsh	43,702	41,470	426,026	10.27
Ward	101,508	97,816	722,423	7.37
Wells	22,537	21,850	148,882	6.81
Williams	13,902½	12,116½	111,205	9.17
Total	1,390,181	1,310,084¾	10,977,111	8.35

RYE, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams				
Barnes	360	360	3,710	10.30
Benson	269	269	2,678	9.96
Billings	100	100	3,000	30.00
Bottineau				
Bowman	25	25	500	20.00
Burleigh	1,140	1,058	9,972	9.42
Cass	1,498	1,368	28,420	27.70
Cavalier	3	3	30	10.00
Dickey	110	110	1,300	11.82
Dunn	58	58	523	9.02
Eddy	6,119	6,119	60,112	9.83
Emmons	158	158	2,217	14.03
Foster	3,936	3,476	26,175	7.53
Grand Forks	154	154	5,570	36.17
Griggs	1,857	1,782	21,526	12.08
Hettinger	10	8	54	6.75
Kidder	2,506	2,506	30,178	12.04
LaMoure	278½	278½	1,128	4.05
Logan	211	196	1,703	8.69
McHenry	2,420	1,764	18,064	10.24
McIntosh	28	28	190	6.79
McKenzie	50	35	465	13.29
McLean	957	934	6,977	7.47
Mercer	60	60	475	7.92
Morton	10	10	200	20.00
Nelson	608	608	10,588	17.42
Oliver	43	43	512	11.93
Pembina	195	190	2,186	11.51
Pierce	100	100	757	7.58
Ramsey	83	83	1,260	15.18
Ransom	259	249	3,000	12.05
Richland	816	586	13,010	22.20
Rolette	205	205	3,380	16.49
Sargent				
Stark	850	850	6,450	7.59
Steele	112	112	970	8.66
Stutsman	1,013	938	7,589	8.09
Towner				
Traill	1,004	820	17,635	21.51
Walsh	22	22	280	12.73
Ward	177	170	1,999	11.76
Wells	5,020	4,549	37,456	8.24
Williams	70	70	1,035½	14.79
Total	32,894½	30,453½	333,274½	10.98

SPELTZ, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	62	52	780	15.00
Barnes	1,178	1,148	36,548	32.00
Benson	2,678	2,678	17,405	6.51
Billings	293	293	9,177	31.32
Bottineau	731	731	16,882	23.10
Bowman	12	12	320	27.09
Burleigh	4,493	4,493	84,279	18.76
Cass	221	221	6,265	28.35
Cavalier	431	424	9,011	21.73
Dickey	7,060	7,060	165,369	23.42
Dunn	300	300	4,854	16.18
Eddy	1,869	1,869	32,042	23.55
Emmons	8,357	8,357	177,118	21.00
Foster	1,721	1,565	31,592	20.13
Grand Forks	1,706	1,701	13,766	8.10
Griggs	626	616	15,127	24.56
Hettinger	702	670	11,433	17.06
Kidder	2,176	2,176	23,184	10.61
LaMoure	9,663½	9,663½	98,077½	10.15
Logan	6,250	5,870	96,657	16.47
McHenry	1,876	1,800	29,405	16.33
McIntosh	6,734	6,734	102,953	15.29
McKenzie	95	95	1,387	14.06
McLean	4,254	2,975	33,710	11.33
Mercer	902	842	9,332	11.09
Morton	1,009	992	17,857	18.09
Nelson	780	780	18,905	24.24
Oliver	267	267	3,691	13.83
Pembina	20	20	350	17.65
Pierce	543	425	9,473	22.29
Ramsey	1,220	1,205	27,395	22.73
Ransom	2,491	2,381	59,067	24.81
Richland	1,954	1,942	19,735	10.16
Rolette	266	266	5,839	21.95
Sargent	5,374	5,308	148,810	23.03
Stark				
Steele	436	396	11,245	28.40
Stutsman	3,974	3,629	74,699	20.59
Towner	2,389	2,389	46,144	19.31
Traill	62	62	620	10.00
Walsh	24	24	540	22.65
Ward	1,892	1,869	33,099	17.71
Wells	14,185	14,135	18,492	13.07
Williams	535	476	13,434	28.22
Total	101,811½	98,906½	1,536,068½	15.53

CORN, 1907.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	396¼	.....	3,011	7.60
Barnes	2,360	.....	3,805	1.61
Benson	165	164	31	5.32
Billings	172½	.....	2,397	1.39
Bottineau	500	500	.....	.....
Bowman	36	.....	275	7.64
Burleigh	2,542	.....	29,810	11.72
Cass	19,240	.....	76,012	3.95
Cavalier	35	35	.....	.....
Dickey	4,514	2,186	19,381	8.33
Dunn	674	.....	1,739	2.58
Eddy	274	274	.....	.....
Emmons	4,183	.....	56,414	13.49
Foster	226	174	.....	.....
Grand Forks	2,083	1,798	1,237	4.34
Griggs	211	203	.....	.....
Hettinger	1,374	.....	6,499	4.73
Kidder	340	.....	7,808	22.96
LaMoure	635¼	.....	727	1.14
Logan	117	.....	659	5.63
McHenry	199	.....	892	4.48
McIntosh	168	.....	1,000	5.95
McKenzie	147	.....	630	4.29
McLean	953	216	550	.75
Mercer	723	.....	4,207	5.82
Morton	3,680	.....	59,790	16.24
Nelson	211	.....	104	.49
Oliver	943	.....	2,435	2.59
Pembina	538	536	50	25.00
Pierce	83	72	25	2.27
Ramsey	306	306	.....	.....
Ransom	2,843	1,954	16,655	18.74
Richland	12,704	.....	14,081	1.10
Rolette	72	72	.....	.....
Sargent	4,014	.....	32,282	8.05
Stark	3,250	.....	125,400	38.59
Steele	1,314	.....	72	.....
Stutsman	327	.....	940	2.88
Towner	177	147	.....	.....
Traill	6,066	.....	655	.11
Walsh	692	.....	1,055	1.53
Ward	385	132½	195	.77
Wells	435½	.....	594	1.36
Williams	110¼	86¼	1,298	54.08
Total	80,419¼	8,855¾	472,715¼	5.90

POTATOES, 1907.

County	Acres Planted	Bushels Harvested	Av. Yield Bushels Harvested
Adams	94	6,778	72.10
Barnes	693	59,206	85.43
Benson	278½	34,636	124.33
Billings	89	9,076	101.97
Bottineau	600	72,000	120.00
Bowman	17	1,280	75.29
Burleigh	432	42,054	97.34
Cass	1,291	131,130	101.57
Cavalier	477	40,551	85.01
Dickey	471	25,411	53.95
Dunn	193	11,640	60.31
Eddy	220¾	22,472	101.34
Emmons	4,104	49,783	12.13
Foster	199¼	16,556	83.14
Grand Forks	1,430	165,958	116.05
Griggs	263¼	21,651½	82.24
Hettinger	226¼	21,087	93.20
Kidder	225	16,724	74.32
LaMoure	470	40,692½	86.58
Logan	343	16,863	49.16
McHenry	672	56,434	83.97
McIntosh	519	18,254	35.13
McKenzie	75¾	6,043½	78.90
McLean	139½	12,367	88.65
Mercer	141	11,712	83.06
Morton	919	69,698	75.81
Nelson	387	46,630	120.49
Oliver	220½	17,344	78.65
Pembina	484	61,939	127.97
Pierce	181½	18,987	104.61
Ramsey	482	58,352	121.06
Ransom	388	30,717	79.94
Richland	801	61,409	76.66
Rolette	282	32,719	116.02
Sargent	358	31,913	89.14
Stark	890	22,200	24.94
Steele	291	42,918	147.48
Stutsman	603	55,926	92.74
Towner	342½	26,691	77.92
Traill	360	49,366	137.12
Walsh	715	87,302	122.10
Ward	706	90,513	128.20
Wells	417	40,983	98.28
Williams	245	23,884	97.49
Total	22,736¾	1,779,850½	80.00

ROOTS OF ALL KINDS, 1907.

County	Acres Planted	Bushels Harvested
Adams	4	460
Barnes	6	495
Benson	2 $\frac{3}{4}$	262
Billings	2	110
Bottineau	50	6,000
Bowman	1	100
Burleigh	2 $\frac{1}{4}$	120
Cass	103	1,395
Cavalier	44 $\frac{1}{2}$	12,745
Dickey	2	305
Dunn	44	621
Eddy	1 $\frac{1}{2}$	600
Emmons	2	281
Foster	1 $\frac{1}{4}$	300
Grand Forks	2	780
Griggs		
Hettinger	5	495
Kidder	20	1,800
LaMoure	2	405
Logan	1 $\frac{1}{2}$	175
McHenry	23	12
McIntosh	1	10
McKenzie	4 $\frac{1}{4}$	386
McLean	$\frac{1}{2}$	58
Mercer	1 $\frac{1}{4}$	60
Morton	21	1,115
Nelson	2 $\frac{1}{2}$	225
Oliver	9 $\frac{1}{2}$	840
Pembina	5	635
Pierce	2 $\frac{3}{4}$	31
Ramsey	2 $\frac{1}{2}$	418
Ransom	2	270
Richland	3	32
Rolette	20	2,395
Sargent	1	90
Stark	167 $\frac{1}{2}$	495
Steele	2	500
Stutsman	4	300
Towner	2	475
Traill	2	450
Walsh	4	810
Ward	20	1,540
Wells	4	150
Williams	4 $\frac{1}{4}$	313
Total	605 $\frac{1}{4}$	39,059

MILLET AND HUNGARIAN, 1907.

County	Acres Sown	Tons Cut
Adams	72	20
Barnes	4,755	8,568
Benson	1,261	1,837
Billings	4	8
Bottineau	223	264
Bowman	10	14
Burleigh	48	100
Cass	3,807	5,031
Cavalier	30½	31
Dickey	515	632
Dunn	6	2
Eddy		
Emmons	142½	384
Foster	1,303	2,252
Grand Forks	7,669	8,271
Griggs	1,532	2,348
Hettinger	4	30
Kidder	150	143
LaMoure	1,571½	2,617
Logan	2	2
McHenry	255	333
McIntosh		
McKenzie	2½	8
McLean	108	1,360
Mercer	25	42
Morton	1,239	1,421
Nelson	738	1,042
Oliver	102	89
Pembina	1,226	1,476
Pierce	210	256
Ramsey	1,226	1,741
Ransom	1,892	1,627
Richland	1,272	1,721
Rolette	52	41
Sargent	1,197	829
Stark	625	1,345
Steele	4,223	5,094
Stutsman	1,283	1,439
Towner	498	480
Traill	6,121	6,792
Walsh	10,068	12,536
Ward	502	625
Wells	2,599	3,207
Williams	216½	249
Total	58,285½	76,307

BROME GRASS, 1907.

County	Acres Sown	Tons Cut
Adams		
Barnes	2,374	2,290
Benson	687	525
Billings	30	90
Bottineau	494	487
Bowman	4	4
Burleigh	134	67
Cass	867	1,294
Cavalier	531	397
Dickey	352	314
Dunn	17	24
Eddy	1,896	1,283
Emmons	245	274
Foster	677	443
Grand Forks	1,434	1,412
Griggs	1,175½	1,269
Hettinger	50	63
Kidder	400	506
LaMoure	1,457	1,255
Logan		
McHenry	677	1,192½
McIntosh	18	37
McKenzie	2	14
McLean	324	795
Mercer		
Morton	152	159
Nelson	535	653
Oliver	2	3
Pembina	617	731
Pierce	628	416
Ramsey	529	363
Ransom	742	1,053
Richland	166	198
Rolette	176	127
Sargent	155	470
Stark	420	642
Steele	915	1,084
Stutsman	1,610	1,647
Towner	1,100	306
Traill	870	1,510
Walsh	1,491	1,439
Ward	690	683
Wells	1,116	856½
Williams	17	355½
Total	25,776½	26,731½

OTHER TAME GRASSES, 1907.

County	Acres Sown	Tons Cut
Adams	10	15
Barnes	1,020	3,599
Benson	394	1,256
Billings	15	15
Bottineau	1,837	18,167
Bowman	35	26
Burleigh	355	514
Cass	18,328	23,216
Cavalier	728	3,163
Dickey	520	730
Dunn	87	95
Eddy	454	504
Emmons	36	80
Foster	183	255
Grand Forks	12,391	14,142
Griggs	928	1,671
Hettinger	5	12
Kidder	120	247
LaMoure ..	1,870½	5,566
Logan	5	10
McHenry	1,471	2,054½
McIntosh	50	125
McKenzie .....	.....	20½
McLean	946	4,068
Mercer	14	14
Morton	512	696
Nelson	1,112	597½
Oliver	136	194
Pembina	10,792	12,555
Pierce	201	1,642
Ramsey	492	743
Ransom	2,417	6,145
Richland	7,118	10,210
Rolette	323	382
Sargent	2,880	3,264
Stark	640	1,250
Steele	940	1,514
Stutsman	334	483
Towner	257	211
Traill	16,812	18,762
Walsh	7,582	9,723
Ward	1,975	3,885
Wells	1,244	2,194
Williams	100½	1,219
Total	97,670	155,234½

PRAIRIE HAY, 1907.

County.	Tons Cut.
Adams	12,620
Barnes	47,049
Benson	22,825
Billings	6,415
Bottineau	50,487
Bowman	2,173
Burleigh	58,481
Cass	28,919
Cavalier	40,974
Dickey	68,319
Dunn	28,544
Eddy	18,520
Emmons	25,872
Foster	6,322
Grand Forks	40,208
Griggs	20,612
Hettinger	24,351
Kidder	52,600
La Moure	61,433
Logan	59,928
McHenry	61,649
McIntosh	40,048
McKenzie	22,477
McLean	77,780
Mercer	20,595
Morton	67,677
Nelson	47,249
Oliver	27,525
Pembina	12,312
Pierce	31,099
Ramsey	44,303
Ransom	41,608
Richland	49,270
Rolette	28,784
Sargent	57,615
Stark	27,600
Steele	20,317
Stutsman	70,616
Towner	36,435
Traill	11,435
Walsh	28,025
Ward	58,295
Wells	27,893
Williams	3,365
Total	1,590,624

ACREAGE LOST BY HAIL, 1907.

County	Total Loss	Three-Quar- ters Loss	One-Half Loss	One-Quarter Loss
Adams	14	.....	.....	.....
Barnes	6,478	2,430	8,052	3,340
Benson . . . . .	.....	40	220	470
Billings	136	60	10	.....
Bittineau	1,661	4,454	2,530	2,645
Bowman . . . . .	.....	.....	.....	150
Burleigh	619	1,620	711	758
Cass	13,726	7,367	10,005	16,208
Cavalier	9,003	10,474	9,283	2,664
Dickey . . . . .	.....	.....	1,210	520
Dunn	108	10	425	190
Eddy	7,615	13,806	21,907	17,295
Emmons	88	200	134	17
Foster	18,077	11,751	11,597	5,924
Grand Forks	14,973	7,218	9,066	9,250
Griggs	2,140	4,085	9,387	6,400
Hettinger	231	448	497	77
Kidder	3,025	4,000	8,008	12,845
La Moure	175	100	661	685
Logan . . . . .	.....	.....	.....	.....
McHenry	9,653	6,851	16,609	7,546
McIntosh . . . . .	.....	.....	.....	.....
McKenzie	333	1,017	407	167
McLean	981	835	505	260
Mercer	3,358	2,860	1,145	483
Morton	100	105	140	60
Nelson	18,938	2,285	1,240	1,505
Oliver	123	1,897	2,061	2,830
Pembina	10,140	2,982	10,576	7,869
Pierce	320	1,840	5,985	1,600
Ramsey	11,494	4,375	2,978	6,881
Ransom	429	.....	124	.....
Richland	90	30	25	.....
Rolette . . . . .	.....	.....	.....	.....
Sargent	166	355	160	90
Stark	700	.....	.....	.....
Steele	9,393	10,710	15,012	11,804
Stutsman	1,421	2,655	2,115	515
Towner	831	2,062	1,565	1,770
Traill	2,789	1,176	3,515	5,964
Walsh	2,865	518	856	7,363
Ward	4,651	13,839	15,214	16,883
Wells	1,758	4,097	8,308	640
Williams	2,695	849	596	1,808
Total	161,297	129,399	182,839	155,476

ACREAGE FOR 1908.

County	Wheat	Oats	Barley	Flax	Rye
Adams	3,368	8,107½	327	14,103	.....
Barnes	269,057	75,612	59,999	34,190	393
Benson	169,167	49,842	30,960	14,212	671
Billings	5,472	8,383	1,207	8,315	56
Bottineau	372,000	91,090	42,000	47,000	600
Bowman	337	2,146	220	3,270	17
Burleigh	42,410	17,178	2,677	18,900	1,608
Cass	309,516	75,652	75,917	27,985	4,628
Cavalier	198,934	71,860	54,719	8,212	26
Dickey	120,659	26,664	39,869	27,296	.....
Dunn	14,162	10,272	1,063	4,239	51
Eddy	88,682	26,253	12,916	13,849	5,013
Emmons	94,539	20,617	13,502	31,317	99½
Foster	77,699	18,049	21,431	6,685	3,182
Grand Forks	235,701	75,882	67,259	34,109	158
Griggs	125,578	37,882	28,994	23,055	2,238
Hettinger	30,090	19,046	769	10,774	78
Kidder	15,760	8,900	2,850	18,000	3,175
La Moure	180,084	37,472	38,749	43,743	.....
Logan	43,866	8,093	9,021	26,015	2,401
McHenry	226,137	68,856	18,152	31,833	1,558
McIntosh	43,375	4,916	8,312	16,749	20
McKenzie	4,036	8,494	597	10,004	38
McLean	188,534	58,651	7,604	86,417	942
Mercer	33,207	11,288	1,490	7,667	48
Morton	75,307	29,094	2,255	18,233	90
Nelson	177,312	46,289	31,470	26,049	542
Oliver	31,180	12,485	1,897	5,421	205
Pembina	180,469	54,154	93,909	9,441	278
Pierce	141,304	28,655	14,065	13,321	340
Ramsey	201,690	42,342	42,345	18,266	334
Ransom	127,516	35,486	18,518	13,199	560
Richland	165,225	65,672	39,610	19,005	1,667
Rolette	96,774	29,493	20,065	9,977	416
Sargent	89,266	21,456	20,961	14,582	943
Stark	24,500	14,600	760	1,700	750
Steele	143,548	39,203	40,091	22,059	87
Stutsman	205,177	59,250	39,474	52,919	1,493
Towner	189,201	49,205	40,172	28,962	766
Traill	159,178	39,661	43,378	11,249	1,862
Walsh	248,758	52,660	61,801	20,819	37
Ward	235,098	91,156	10,261	70,939	376
Wells	159,979	38,160	27,261	34,266	2,817
Williams	48,778	17,626	2,197½	10,387½	183
Total	5,592,630	1,607,761½	1,081,094½	945,728½	40,746½

ACREAGE FOR 1908 — Continued.

County	Corn	Potatoes	Roots of All Kinds	Hay Millet and Hungarian	Brome Grass
Adams	2,114½	451	42	72	9
Barnes	2,573	941	27	4,777	1,311
Benson	632¼	368¾	281	1,431	497
Billings	480	195	3	115	30
Bottineau	560	700	.....	560	300
Bowman	198	62	9	30	20
Burleigh	3,388	688¼	22½	23	15
Cass	27,273	2,133	32	3,634	1,108
Cavalier	154	526	82	37	238
Dickey	4,523	579	8	540	551
Dunn	901	360	200	34	66
Eddy	280	408	1	1,869	1,855¼
Emmons	6,742	597	49	146	148½
Foster	425	231	.....	1,262	409
Grand Forks	3,901	2,187	27	7,139	532
Griggs	397	412¼	17¾	1,817½	1,055
Hettinger	1,812	496	39	95	56
Kidder	420	420	20	195	435
La oMure	1,247½	715½	4	1,147½	1,846
Logan	266	412	2½	23	4
McHenry	1,099½	721	53½	693	458½
McIntosh	190	304	.....	.....	.....
McKenzie	416¼	213¾	42½	7	16
McLean	913½	560	6	152½	379
Mercer	1,104	187¼	.....	143	.....
Morton	4,773	1,147	255	1,332	41
Nelson	519½	656	14	578	464
Oliver	1,358	269	6	240	3
Pembina	1,145	659	20	1,382	21
Pierce	187	181	1¼	253	312
Ramsey	830	747	3¾	594	197½
Ransom	5,028	490	.....	1,433	308
Richland	19,273	1,178	8	1,986	128
Rolette	77	486	66½	107	43
Sargent	5,869	472	2½	650	211
Stark	3,500	950	22	570	450
Steele	2,255	472	37	4,594	376
Stutsman	940	900	64	1,551	647
Towner	738	690	50	453	1,029¼
Trall	8,864	704½	107½	5,945	383
Walsh	1,396	984	25	10,342	612
Ward	965	1,368	30	715	653
Wells	925	539	14	2,363	1,461
Williams	162	400	47¾	138	69
Total	120,815	28,161¼	1,742½	61,168½	18,748¼

ACREAGE FOR 1908—Continued.

County	Other Tame Grasses	Total Acreage of Crop, including Tame Grasses
Adams	35	28,629
Barnes	2,282	451,162
Benson	974	269,034
Billings	3	24,259
Bottineau	2,000	556,720
Bowman . . . . .	.....	6,309
Burleigh	313½	87,223¼
Cass	28,643	556,521
Cavalier	642	335,430
Dickey	1,112	159,343
Dunn	18	31,366
Eddy	701	151,947¼
Emmons	102½	167,859
Foster	218	129,591
Grand Forks	20,302	447,197
Griggs	720	222,166½
Hettinger	148	63,403
Kidder	200	50,375
LaMoure	2,666	308,948
Logan	5	90,108½
McHenry	1,190	350,750
McIntosh . . . . .	.....	73,886
McKenzie	43½	23,908
McLean	158	344,317
Mercer . . . . .	.....	55,134¼
Morton	193	132,720
Nelson	6,036	289,929
Oliver	271	53,334
Pembina	14,373	355,851
Pierce	410	199,029
Ramsey	977	308,325
Ransom	3,187	205,725
Richland	18,525	332,277
Rolette	94	157,598½
Sargent	3,079	157,491
Stark	760	46,782
Steele	1,448	254,170
Stutsman	536	362,951
Towner	565	311,831
Traill	11,467	282,799
Walsh	10,020	407,454
Ward	2,977	414,538
Wells	923¼	268,708
Williams	306	80,294
Total	138,623¼	9,637,220¼

VALUE OF GARDEN PRODUCE SOLD, 1907.

County	Value
Adams	\$ 22.50
Barnes	1,493.00
Benson	453.00
Billings	15.00
Bottineau	2,000.00
Bowman	1,000.00
Burleigh	2,669.00
Cass	1,186.00
Cavalier	175.00
Dickey	2,205.00
Dunn	980.00
Eddy	225.00
Emmons	243.50
Foster	41.00
Grand Forks	1,062.00
Griggs	1,318.00
Hettinger	1,192.00
Kidder	285.00
LaMoure	2,764.00
Logan	375.00
McHenry	2,276.00
McIntosh	63.00
McKenzie	
McLean	305.00
Mercer	365.00
Morton	900.00
Nelson	4,538.00
Oliver	249.55
Pembina	428.00
Pierce	429.00
Ramsey	1,633.00
Ransom	814.00
Richland	3,210.00
Rolette	12.69
Sargent	256.60
Stark	5,460.00
Steele	310.00
Stutsman	2,360.00
Towner	858.00
Traill	259.00
Walsh	6,444.00
Ward	3,493.65
Wells	31,638.00
Williams	1,797.00
Total	\$ 87,803.49



STATE FAIR AT FARGO

1. Cattle Barn. 2. Stock Barn. 3. Scene on Grounds.

1

2

VALUE OF POULTRY AND EGGS SOLD, 1907.

County	Value
Adams	\$ 210.75
Barnes	125.80
Benson	6,748.00
Billings	25.00
Bottineau	7,000.00
Bowman	1,000.00
Burleigh	7,872.00
Cass	35,964.00
Cavalier	6,554.00
Dickey	7,617.00
Dunn	9,951.00
Eddy	3,440.00
Emmons	6,986.00
Foster	7,243.00
Grand Forks	24,198.00
Griggs	3,891.00
Hettinger	489.00
Kidder	1,374.00
LaMoure	1,757.50
Logan	5,802.00
McHenry	1,087.90
McIntosh	4,237.00
McKenzie	
McLean	248.01
Mercer	3,685.00
Morton	9,456.00
Nelson	97,836.00
Oliver	385.52
Pembina	13,025.00
Pierce	1,572.00
Ramsey	11,284.00
Ransom	9,883.00
Richland	89,847.00
Rolette	933.67
Sargent	26,268.00
Stark	3,950.00
Steele	6,086.00
Stutsman	13,218.00
Towner	10,662.00
Traill	818,623.00
Walsh	15,320.00
Ward	12,965.00
Wells	49,488.00
Williams	5,494.00
Total	\$1,343,802.15

DAIRY PRODUCTS, 1907.

County	Lbs Cheese Made in Families	Lbs Butter Made in Families	Value of Milk Sold other than to Cheese Fac- tories and Creameries	Value of Milk Sold to Cheese Factories and Creameries or Made into Butter
Adams	5	3,805		
Barnes		276,901	\$ 4.92	\$ 4,298.00
Benson	350	132,608	61,770.00	2,990.00
Billings	100	1,656		
Bottineau	1,000	254,000		
Bowman		100,000	500.00	
Burleigh	275	73,272	5,591.00	2,839.00
Cass		553,006	10,643.00	1,005.00
Cavalier	760	256,490	575.00	496.00
Dickey		70,907	2,920.00	17,681.00
Dunn	100	36,768		
Eddy		75,155		5,334.00
Emmons	300	19,202		6,666.00
Foster		36,735	9.04	1,160.00
Griggs		159,132	1,200.00	
Grand Forks	1,650	352,732	4,678.00	8,267.00
Hettinger		2,255		
Kidder		28,000	115.00	29,364.92
LaMoure		157,434	2,195.00	9,620.00
Logan	520	28,379	4,638.00	6,555.00
McHenry	125	265,766	2,686.00	1,000.00
McIntosh	690	71,897	500.00	
McKenzie		8,995		
McLean	20,748	13,750	256.30	
Mercer	900	69,365		
Morton	5,850	144,349	1,750.00	62,168.00
Nelson	50	313,827	49.00	
Oliver	3,460	50,214	330.75	16,502.13
Pembina	1,300	327,046	520.00	1,448.00
Pierce		61,231	270.00	337.00
Ramsey	300	278,225	10,115.00	
Ransom	100	186,988	235.00	1,812.00
Richland	900	203,161	2,675.00	5,843.00
Rolette		1,200	34.10	821.00
Sargent		118,981	1,014.00	28,189.00
Stark	2,340	62,500	14,570.00	6,580.00
Steele		70,380	1,041.00	1,709.00
Stutsman	1,490	200,401	4,525.00	1,680.00
Towner	400	164,509	3,630.00	50.00
Trails		213,083	1,665.80	100.00
Walsh		313,279	4,561.00	461.00
Ward	3,879	190,802	5,722.00	2,190.00
Wells		200,768	905.00	50.00
Williams	1,505	42,709	2,839.00	1,050.00
Total	49,097	6,191,863	\$154,732.91	\$228,266.05

DAIRY PRODUCTS, 1907—Continued.

County	No. Lbs Milk Sold to Cheese Factories	No. Lbs Milk Sold to Creameries	No. Lbs Cream Sold to Creameries	No. Cows Used for 1908 Dairying
Adams				202
Barnes	2,000	2,500	51,148	3,215
Benson		22,775		2,529
Billings				990
Bottineau				2,800
Bowman				2,000
Burleigh		2,420	24,288	1,282
Cass			1,800	4,524
Cavalier				5,955
Dickey		12,400	581,317	2,872
Dunn		11,000		634
Eddy				1,173
Emmons			210,875	4,450
Foster		1,920	1,920	50
Grand Forks	300	3,132	58,230	3,065
Griggs				1,528
Hettinger				50
Kidder			357,959	1,100
LaMoure	10,600	16,950	260,970	3,374
Logan			384,677	3,510
McHenry		20,040	7,600	2,390
McIntosh			30,000	1,095
McKenzie				172
McLean		1,875	2,524	2,619
Mercer				1,183
Morton		3,444,186	48,202	5,273
Nelson				2,632
Oliver	23,775	337,160		1,163
Pembina		6,205	15,441	3,270
Pierce			1,527	1,484
Ramsey	50	2,214	18,122	2,373
Ransom	3,136			3,249
Richland	3	56,000	43,413	10,135
Rolette	80,970		2,000	1,374
Sargent		33,370	440,082	4,169
Stark		83,500		755
Steele	300			2,409
Stutsman		6,050	11,100	2,981
Towner	10,300	1,000	3,840	1,832
Trail		2,500	74,504	2,958
Walsh		6,300	22,187	4,610
Ward	550	1,183	33,870	4,798
Wells		600	11,281	3,090
Williams				572
Total	131,984	4,075,280	2,698,878	111,889

SHEEP AND WOOL, 1907.

County	No. Sheep Sheared	Lbs Wool Clipped
Adams	10,061	63,650
Barnes	998	6,986
Benson	891	4,955
Billings	47,182	330,229
Bottineau	450	2,000
Bowman	25,817	500,000
Burleigh	5,986	32,923
Cass	2,319	5,721
Cavalier	1,115	2,425
Dickey	2,218	8,872
Dunn	18,071	97,304
Eddy	173	1,050
Emmons	6,854	37,354
Foster	1,600	9,600
Grand Forks	194	2,487
Griggs	764	6,893
Hettinger	14,991	86,917
Kidder	7,400	42,000
LaMoure	2,716	4,401
Logan	2,282	12,166
McHenry	1,215	4,500
McIntosh	4,517	22,600
McKenzie	6,368	33,442
McLean	1,040	8,320
Mercer	9,273	11,251
Morton	23,478	128,308
Nelson	1,087	1,762
Oliver	1,740	11,840
Pembina	3,546	24,618
Pierce	61	680
Ramsey	124	2,476
Ransom	950	4,275
Richland	1,825	11,558
Rolette	893	4,465
Sargent	1,071	6,426
Stark	23,539	141,000
Steele	261	875
Stutsman	7,370	35,000
Towner	61	489
Traill	1,663	6,000
Walsh	58	406
Ward	198	778
Wells	1,727	6,856
Williams	61	559
Total	244,208	1,726,462

ORCHARDS AND FRUITS, 1907.

County	No. Trees in Bearing	No. Trees not Bearing	No. Acres Berries	Value of Fruit Sold	Acres Artificial Forests
Adams					23
Barnes	541	3,027	607	\$ 18.00	5,022
Benson	213	297	248	274.00	37
Billings					30
Bottineau	484	2,618	2		1,400
Bowman		1,000			10
Burleigh	227	2,701	7		500
Cass	499	3,085	85	57.00	1,183
Cavalier			2		470
Dickey	268	2,604	8	30.00	230
Dunn					534
Eddy			134	67.00	226
Emmons	75	674	1		521/2
Foster					1,296
Grand Forks	711	1,599	41	367.00	1,524
Griggs	28	506	861/2	20.00	1293/4
Hettinger			985		28,601
Kidder	325	595	8		60
LaMoure	575	4,336	2491/2	20.00	146
Logan			201/2		22
McHenry	224	1,872	722	26.00	371
McIntosh	50	1,000	5		27
McKenzie			31		19
McLean	170	4,935	135	2.00	4,261
Mercer					5
Morton	140	1,267	21/2	50.00	3,981
Nelson	276	895	14	11.00	285
Oliver	1	950	111/4		421/2
Pembina	537	952	50	222.00	701
Pierce	136	305	92		28,7361/4
Ramsey	882	1,452	558	10.00	1,818
Ransom	248	3,186	4	28.00	765
Richland	253	900	38	445.00	144
Rolette	556	686	36	1.46	828
Sargent	365	3,242	5	1,680.00	315
Stark	90	570	42	57.50	155
Steele	20	1,417	4	40.00	387
Stutsman	25	1,754	129	125.00	1,417
Towner	215	872	4	313.00	274
Traill	711	2,202	79	150.00	5511/4
Walsh	5,174	1,500	60	343.00	3,840
Ward	100	5,310	998	123.00	601
Wells	128	1,576	2,702	162.00	12,900
Williams	17	12	34		12,1303/4
Total	14,262	59,897	8,0751/4	\$ 4,641.96	115,5213/4

LIVE STOCK, 1908.

County	Horses	Mules	Cattle	Sheep	Hogs
Adams	3,402	75	3,147	10,469	476
Barnes	12,728	118	13,821	777	6,665
Benson	10,369	118	7,962	1,005	3,863
Billings	9,839	50	22,862	47,182	925
Bottineau	16,000	350	14,000	450	5,500
Bowman	2,950	37	6,502	25,817	190
Burleigh	8,793	83	14,894	4,488	2,149
Cass	15,724	382	14,410	3,313	10,014
Cavalier	11,959	109	3,681	1,095	2,626
Dickey	8,441	121	46,905	3,399	11,371
Dunn	5,426	6	14,321	16,187	1,751
Eddy	4,450	155	4,768	613	2,385
Emmons	11,517	64	27,098	8,031	8,989
Foster	3,575	118	2,887	188	2,019
Grand Forks	13,020	245	13,674	1,335	5,868
Griggs	8,117	80	6,032	2,401	3,377
Hettinger	4,015	56	5,814	13,787	3,208
Kidder	6,287	47	10,113	4,943	405
La Moure	9,792	134	13,662	686	5,276
Logan	5,451	31	14,117	2,280	2,539
McHenry	14,883	260	14,950	1,115	3,030
McIntosh	6,207	9	11,796	3,553	1,042
McKenzie	7,566	55	14,853	11,447	528
McLean	15,869	102	12,840	1,040	4,558
Mercer	4,568	16	13,602	6,884	1,563
Morton	14,032	105	49,068	15,444	3,431
Nelson	10,074	198	11,252	1,087	5,466
Oliver	4,317	29	8,594	1,494	3,000
Pembina	10,840	44	9,927	4,995	2,758
Pierce	9,651	70	6,009	81	2,995
Ramsey	10,317	259	9,036	1,475	5,088
Ransom	7,389	43	11,805	387	8,902
Richland	13,789	241	20,217	1,849	10,817
Rolette	7,085	89	6,272	1,162	3,198
Sargent	7,124	91	17,014	1,037	10,603
Stark	6,413	11	10,521	13,306	1,931
Steele	7,766	96	7,017	709	3,965
Stutsman	12,548	118	13,416	3,807	2,024
Towner	9,411	401	6,643	1,102	5,625
Traill	9,404	478	9,513	2,703	3,723
Walsh	14,033	458	12,835	594	5,404
Ward	19,402	491	11,336	1,326	8,064
Wells	8,593	115	9,578	2,236	4,914
Williams	3,225	80	2,785	132	1,195
Total	406,361	6,238	561,049	227,361	183,420

LIVE STOCK, 1907.

County	Value of Animals Fattened and Killed for Home Use and Sold to Local Dealers	Value of Cattle, Hogs and Sheep Sold for Market and Shipped Out- side the State	Value of Horses Sold at Markets Outside State	Value of all Kinds Stock Brought Into State
Adams	\$ 4,292.00	\$ 18,666.00	\$ 6,261.00	\$ 75,312.00
Barnes	116,189.00	81,794.00	3,525.00	11,405.00
Benson	802,704.00	88,716.00	75.00	265.00
Billings	1,052.00	15,088.00	500.00	5,557.00
Bottineau	64,400.00	25,000.00	300.00	.....
Bowman	10,000.00	10,660.00	.....	5,375.00
Burleigh	32,518.00	39,298.00	1,217.00	450.00
Cass	154,326.00	39,342.00	2,781.00	1,765.00
Cavalier	72,780.00	25,615.00	1,742.00	1,800.00
Dickey	56,662.00	189,092.00	7,030.00	14,560.00
Dunn	30,513.00	189,978.00	7,370.00	16,865.00
Eddy	38,014.00	36,475.00	.....	4,000.00
Emmons	38,210.00	147,822.00	12,668.00	1,968.00
Foster	16,302.00	22,793.00	2,366.00	2,820.00
Grand Forks	120,387.00	33,643.00	8,265.00	1,133.00
Griggs	52,117.00	116,364.00	5,545.00	730.00
Hettinger	15,872.00	19,533.00	95.00	8,220.00
Kidder	12,330.00	74,325.00	2,650.00	8,550.00
LaMoure	101,371.00	119,644.00	4,885.00	22,957.00
Logan	38,468.00	113,158.00	3,745.00	55,704.00
McHenry	960.30	93,145.00	378.00	125.25
McIntosh	13,425.00	40,950.00	5,000.00	200.00
McKenzie	13,565.00	76,361.00	5,100.00	3,330.00
McLean	72,436.00	30,837.00	5,350.00	2,070.00
Mercer	26,007.00	33,487.00	.....	.....
Morton	51,651.00	155,173.00	1,200.00	24,470.00
Nelson	78,517.00	3,397.55	3,853.60	4,000.00
Oliver	16,923.00	69,063.00	.....	3,550.00
Pembina	100,622.00	10,714.00	1,670.00	530.00
Pierce	26,437.00	6,876.00	219.00	375.00
Ramsey	170,398.00	15,982.00	5,277.00	360.00
Ransom	62,882.00	100,035.00	5,066.00	2,685.00
Richland	103,805.00	57,106.00	4,730.00	97,620.00
Rolette	37,010.00	21,573.00	1,060.00	1,000.00
Sargent	53,850.00	89,189.00	12,125.00	16,280.00
Stark	35,400.00	110,500.00	75,600.00	87,500.00
Steele	73,142.00	16,428.00	4,720.00	2,316.00
Stutsman	60,763.00	55,250.00	2,900.00	10,000.00
Towner	66,329.00	22,077.00	0,360.00	3,940.00
Traill	78,667.00	371,572.00	20,505.00	36,750.00
Walsh	156,345.00	13,334.00	8,484.00	11,784.00
Ward	88,522.00	12,344.00	600.00	5,455.00
Wells	68,043.00	112,627.00	600.00	11,740.00
Williams	13,875.00	560.00	.....	2,371.00
Total	\$3,248,081.30	\$2,934,586.55	\$244,817.60	\$567,887.25

COAL MINES, 1907.

County	Number of Mines	Number of Tons Mined	Number of Men Employed	Average Wages Paid	Average Cost per Ton Mined
Adams	5	4,707	22	\$ 4,500.00	\$1.76
Barnes . . . . .	..	..	..	..	..
Barnes . . . . .	..	..	..	..	..
Billings	1	400	10	225.00	2.00
Bottineau . . . . .	..	..	..	..	..
Bowman . . . . .	..	..	..	..	..
Burleigh	4	7,050	10	505.00	.88
Cass . . . . .	..	..	..	..	..
Cavalier . . . . .	..	..	..	..	..
Dickey . . . . .	..	..	..	..	..
Dunn . . . . .	..	..	..	..	..
Eddy . . . . .	..	..	..	..	..
Emmons . . . . .	..	..	..	..	..
Foster . . . . .	..	..	..	..	..
Grand Forks . . . . .	..	..	..	..	..
Griggs . . . . .	..	..	..	..	..
Hettinger	6	3,021	5	1,155.00	1.36
Kidder . . . . .	..	..	..	..	..
La Moure . . . . .	..	..	..	..	..
Logan . . . . .	..	..	..	..	..
McHenry . . . . .	..	..	..	..	..
McIntosh . . . . .	..	..	..	..	..
McKenzie . . . . .	..	..	..	..	..
McLean	3	25,300	29	5,340.00	.90
Mercer . . . . .	..	..	..	..	..
Morton	2	26,734	28	6,702.00	.90
Nelson . . . . .	..	..	..	..	..
Oliver	4	1,715	3	390.00	.91½
Pembina . . . . .	..	..	..	..	..
Pierce . . . . .	..	..	..	..	..
Ramsey . . . . .	..	..	..	..	..
Ransom . . . . .	..	..	..	..	..
Richland . . . . .	..	..	..	..	..
Rolette . . . . .	..	..	..	..	..
Sargent . . . . .	..	..	..	..	..
Stark	2	75,500	90	42,500.00	1.00
Steele . . . . .	..	..	..	..	..
Stutsman . . . . .	..	..	..	..	..
Towner . . . . .	..	..	..	..	..
Traill . . . . .	..	..	..	..	..
Walsh . . . . .	..	..	..	..	..
Ward	13	146,953	94	72,926.00	1.00
Wells . . . . .	..	..	..	..	..
Williams	6	11,645	19	9,240.00	1.26
Total	46	303,025	310	\$143,483.00	

VITAL, 1908.

County	No. Males Living on Farms	No. Females Living on Farms	No. of Births	No. of Deaths
Adams	2,380	1,554	87	22
Barnes	4,430	3,016	230	80
Benson	2,927	2,182	108	17
Billings	1,710	775	17	4
Bottineau	6,524	5,110	358	84
Bowman	711	504	7	6
Burleigh	2,045	1,606	81	14
Cass	5,633	4,251	156	44
Cavalier	838	142	211	33
Dickey	3,143	1,918	70	31
Dunn	1,440	1,116	100	17
Eddy	1,519	1,128	66	24
Emmons	2,858	1,451	242	54
Foster	1,139	885	56	14
Grand Forks	5,131	3,932	140	58
Griggs	2,006	1,758	66	21
Hettinger	1,977	1,637	167	36
Kidder	1,118	972	63	18
LaMoure	3,391	2,659	183	51
Logan	2,635	2,365	284	58
McHenry	4,869	3,852	326	92
McIntosh	1,697	1,600	128	32
McKenzie	1,501	931	39	8
McLean	4,617	3,819	290	78
Mercer	822	676	105	3
Morton	4,661	4,280	214	52
Nelson	3,178	2,501	130	33
Oliver	1,458	1,236	80	20
Pembina	8,805	3,170	110	45
Pierce	2,264	1,873	166	41
Ramsey	3,324	2,503	135	30
Ransom	2,480	2,052	95	38
Richland	3,605	3,065	135	40
Rolette	2,594	2,139	162	38
Sargent	2,560	1,964	219	80
Stark	1,554	1,450	201	125
Steele	2,517	1,939	85	27
Stutsman	3,835	3,041	240	55
Towner	2,442	1,838	114	19
Traill	3,291	2,519	88	16
Walsh	6,825	5,733	232	77
Ward	7,725	6,727	609	88
Wells	2,911	2,368	236	57
Williams	15,561	1,165	84	21
Total	148,651	101,402	6,915	1,801

FARM LABOR, 1907.

County	No. of Male Employees	Av. Wages Paid per Month	No. of Female Employees	Av. Wages Paid per Month	Total Wages Paid
Adams	178	35.11	5	9.60	\$ 15,601.00
Barnes	1,166	25.00	235	16.50	524,040.00
Benson	911	30.00	192	16.00	274,807.00
Billings	85	30.00	20	16.00	9,550.00
Bottineau	1,800	32.30	268	15.50	398,000.00
Bowman	8	37.00	2	20.00	4,032.00
Burleigh	223	29.50	14	15.60	61,699.00
Cass	1,433	33.88	436	18.79	755,182.00
Cavalier	838	36.25	142	14.22	170,759.00
Dickey	483	30.00	30	14.00	138,456.00
Dunn	163	27.91	24	13.12	37,227.00
Eddy	282	26.00	50	16.00	88,529.00
Emmons	269	28.17	41	16.40	58,743.00
Foster	1,286	33.35	72	15.75	110,219.00
Grand Forks	1,507	33.00	322	13.00	480,125.00
Griggs	540	32.25	142	17.07	239,186.00
Hettinger	105	35.00	50	20.00	22,187.00
Kidder	324	33.00	38	15.00	28,850.00
LaMoure	981	40.00	175	22.67	331,160.00
Logan	218	13.18	113	4.98	23,811.00
McHenry	1,008	30.00	190	12.00	180,860.00
McIntosh	92	25.00	42	15.00	2,930.00
McKenzie	94	31.80	13	16.00	16,919.00
McLean	3,336	25.00	109	13.00	418,067.00
Mercer	85	23.00	20	10.25	13,549.00
Morton	441	30.00	51	18.00	79,787.00
Nelson	809	32.00	152	15.00	271,630.00
Oliver	79	21.59	9	11.33	15,666.00
Pembina	1,223	33.00	188	15.00	246,928.00
Pierce	426	32.00	33	13.00	58,230.00
Ramsey	1,006	26.13	175	18.80	367,244.00
Ransom	831	26.00	92	3.00	219,740.00
Richland	470	26.00	90	16.00	22,270.00
Rolette	596	30.55	59	15.15	92,700.00
Sargent	441	30.00	150	12.00	164,840.00
Stark	125	30.00	17	10.00	22,500.00
Steele	782	25.00	253	15.00	345,062.00
Stutsman	600	22.25	88	20.00	217,645.00
Towner	815	35.06	111	19.22	246,109.00
Traill	914	34.00	327	16.00	576,684.00
Walsh	1,129	34.13	176	15.58	331,716.00
Ward	1,542	33.02	286	16.61	289,278.00
Wells	550	23.50	70	16.75	112,787.00
Williams	159	19.73	25	9.73	21,496.00
Total	30,353	.....	5,097	.....	\$8,106,800.00

NOTICE OF TAKING UP ESTRAYS.

Each person taking up an estray horse, mare, colt, ass, mule, or neat cattle, sheep, hog or goat, shall within ten days thereafter give notice of the finding and taking up of the said animal in a weekly newspaper, if there is such a newspaper published in the county; if not, in the nearest newspaper, which advertisement shall give a description of such estray and the marks and brands thereon. Any person taking up such estray shall also file, within ten days, with the county auditor of the county wherein such estray is taken up, a description of such estray, and the marks and brands thereon. Such person shall, also, within ten days from the time of taking up such estray, mail to the Commissioner of Agriculture and Labor, at his office in Bismarck, by registered mail, a true copy of the notice hereinbefore required to be given to the county auditor of the respective counties. The receipt for the registered letter and proof of such publication of the notice as herein provided must be filed with the county auditor of the county where such estray was taken up before said estray can be appraised or before appraisers can be appointed. Any person taking up such an estray who fails to advertise such estray, or who fails to file a description thereof with the county auditor, or fails to mail a copy of said notice to the Commissioner of Agriculture and Labor, as herein provided, shall be guilty of a misdemeanor and shall be liable to the owners of such estray for all damages caused by neglecting to advertise as herein provided; provided, if any person shall take up an estray which is apparently worthless, such estray may at once be appraised, and if found worthless, may be destroyed. The person taking up such estray shall notify some justice of the peace of the county, and such justice shall immediately choose one disinterested freeholder as one appraiser, the party taking up the estray shall choose one disinterested freeholder, and the two so chosen shall appoint a third person living in the vicinity where the estray was taken up, and the three persons shall constitute a board of appraisers who shall act without compensation. If such appraisers shall appraise the estray as worthless, it shall be destroyed by the party taking it up.

LIVE STOCK TAKEN UP UNDER THE ESTRAY LAW.

July 1, 1906 to June 30, 1908.

County	Horses	Cattle	Hogs	Sheep	Extension
Adams	10	2			12
Barnes	9	1	1		11
Benson	32	12	2		46
Billings	16	1			17
Bottineau	35	51			86
Bowman	11	2			13
Burleigh	20				20
Cass	9	8			17
Cavalier	3	6			9
Dickey	22	12			34
Dunn					
Eddy	3	5			8
Emmons	7	6			13
Foster	4	2	11		17
Grand Forks	11	14			25
Griggs	4	31	3		38
Hettinger	69	21			90
Kidder	25	9			34
LaMoure	26	7	7		40
Logan	2	7			9
McHenry	44	22	1		67
McIntosh	9	9			18
McKenzie	5	7			12
McLean	90	40	1		131
Mercer	5	5			10
Morton	111	39			150
Nelson	9	12			21
Oliver	1	3			4
Pembina	9	2			11
Pierce	11	20			31
Ramsey	13	19	1		33
Ransom	5	2			7
Richland	11	19	2		32
Rolette	23	9			32
Sargent	6	4	1		11
Stark	64	16			80
Steele	1	2			3
Stutsman	49	27			76
Towner	9	14			23
Traill	3	1			4
Walsh	2	3	1		6
Ward	163	43	2	8	216
Wells	33	26	1		60
Williams	158	21	1		180
Total	1,152	562	35	8	1,757

STOCK BRANDS.

Commissioner of Agriculture and Labor Records Brands. The Commissioner of Agriculture and Labor shall keep a record of all marks and brands, showing the names and residences of the persons owning the same, together with a description and facsimile of such mark or brand, and in case of live stock, the range occupied by such stock, as near as may be, which record shall be open to the inspection of any person interested, and he shall deliver to the owner of such mark or brand a certificate thereof, which certificate shall be deemed evidence of ownership, for which he shall charge and collect a fee of two dollars.

STOCK BRAND REGISTRATION.

Date	Number Issued	Certified Copies	Fee
1906—			
July	35	1	\$ 71.00
August	28	.....	56.00
September	32	.....	64.00
October	40	.....	80.00
November	38	.....	76.00
December	38	.....	76.00
1907—			
January	14	.....	28.00
February	22	.....	44.00
March	52	.....	104.00
April	42	.....	84.00
May	49	.....	98.00
June	40	.....	80.00
July	35	.....	70.00
August	26	.....	52.00
September	23	.....	46.00
October	25	.....	50.00
November	23	1	47.00
December	17	.....	34.00
1908—			
January	24	.....	48.00
February	12	.....	24.00
March	17	.....	34.00
April	22	.....	44.00
May	15	.....	30.00
June	21	.....	42.00
Total	690	.....	\$ 1,382.00

LIENS FOR SERVICE OF SIRE.

Filing Statement of Pedigree Prerequisite. Every owner of a sire charging a service fee, in order to have a lien for service upon the offspring of any such sire under the provisions of this chapter, shall file a statement, verified by oath, to the best of his knowledge and belief, with the Commissioner of Agriculture and Labor, giving the name, age, description and pedigree or breeding of such sire, so far as known, as well as the terms and conditions upon which he is advertised for service.

Certificate of Commissioner of Agriculture. Filing and Posting. The Commissioner of Agriculture and Labor, upon receipt of the statement specified in the last section, shall issue a certificate to the owner thereof, who shall file a copy of such certificate with the register of deeds of the county or counties in which such sire shall stand for service, and copies of such certificate shall also be posted conspicuously in all places where such sire shall stand for service, which certificate shall state the name, age, description, pedigree and ownership of such sire and the terms and conditions upon which the sire is advertised for service. Such certificate shall be procured and filed prior to the service of such sire, and all certificates procured and posted according to this section shall be operative as long as the terms and conditions remain the same. The original certificate shall follow the sire in all changes of ownership, and all transfers shall be recorded in the office of the Commissioner of Agriculture and Labor, and a bill-of-sale filed with the register of deeds, as is provided for the filing of the original certificate, and that the provisions of this chapter so far as relates to the filing of the statement aforesaid have been complied with, and the Commissioner of Agriculture and Labor shall have the power to charge one dollar for each certificate and recording thereof, and twenty-five cents for all copies of certificates, and twenty-five cents for filing certificate with register of deeds, and twenty-five cents for recording each transfer.

SIRE CERTIFICATE REGISTRATION.

Date	Number Issued	Certified Copies	Number Transfers	Fee
1906—				
July	3	6	.....	\$ 4.50
August				
September				
October				
November	1	.....	.....	1.00
December	4	11	1	7.00
1907—				
January				
February	2	5	.....	3.25
March	8	33	1	16.50
April	34	221	.....	89.25
May	50	268	1	117.25
June	16	55	1	30.00
July	5	21	1	10.50
August	1	1	.....	1.25
September	1	3	.....	1.75
October				
November				
December	1	.....	.....	1.00
1908—				
January	1	6	.....	2.50
February	6	24	.....	12.00
March	22	133	.....	55.25
April	43	203	.....	93.75
May	36	175	.....	79.75
June	21	79	.....	40.75
Total	255	1,244	5	\$ 567.25

COAL MINE STATISTICS.

Coal Mine License. How Procured. The operator of each and every coal mine operated in the state of North Dakota, and selling coal to the general public, shall annually, on or before the tenth day of July, after the passage and approval of this act, procure a license from the Commissioner of Agriculture and Labor, for which he shall pay a fee of five dollars.

Statistics to be Furnished. There shall be kept in a book to be provided for that purpose, at each mine operated and selling coal to the general public, the following information: Name of the mine; its location; when it began business; by whom owned; by whom operated; number of tons of coal mined; number of men employed; wages paid by the day, week, month and year; the total cost of operating the mine; the total amount of coal sold, and the price received therefor, and such other statistical information as the Commissioner of Agriculture and Labor may prescribe, to be kept by such mine, under the provisions of section 127 of the revised codes of 1905; provided, that when the report of any operator of a coal mine in this state shows that the output of his mine has not been more than five hundred tons of coal for the year, the five dollars paid as license shall be returned to such operator.

Report to Commissioner of Agriculture. It shall be the duty of all persons operating mines within this state, as provided in sections one and two of this act, to make verified report to the Commissioner of Agriculture and Labor, containing all the information to be kept by said mine operator, as provided in section two of this act, together with such further information as the Commissioner of Agriculture and Labor may require under the provisions of section 127 of the revised codes of 1905.

Penalty for Failure to Comply with Law. Every mine owner and operator who shall operate any coal mine without first procuring the license herein provided for, or who shall wilfully fail, neglect or refuse to comply with the provisions of this act, shall be deemed guilty of a misdemeanor, and on conviction thereof, shall be subject to a fine of one hundred dollars, or imprisonment in the county jail not exceeding thirty days, or both such fine and imprisonment, as the court may determine.

OPERATORS OF COAL MINES REQUESTED TO REPORT AND SECURE
LICENSE.

Johns & Colloep, Hettinger, North Dakota.

M. R. Rodgers, Lemmon, South Dakota.

C. C. Livingston, Hettinger, North Dakota.



OIL AND GAS NEAR WESTHOPE

1. Oil Derrick. 2. First Gas Well. 3. Parker Farm Gas Well.

Albert Leff, Reeder, North Dakota.
Wagner & Treele, Stowers, North Dakota.
M. R. Howard, Bentley, North Dakota.
Wm. Anderson, Bentley, North Dakota.
Victor Coleman, Slaughter, North Dakota.
Oscar Ecklund, Slaughter, North Dakota.
C. B. Yinegst, Wilton, North Dakota.
Aug. Anderson, Wilton, North Dakota.
Mrs. John Lund, Wilton, North Dakota.
Oscar Coleman, Wilton, North Dakota.
Mr. Donovan, Mgr., Danielson Mine, Wilton, North Dakota.
Mr. Chas. Peterson, Wilton, North Dakota.
C. C. Stafford, Velva, North Dakota.
Gidings Knowles, Velva, North Dakota.
G. N. Dickerson, Velva, North Dakota.
Geo. W. Strong, Velva, North Dakota.
Sam Strong, Velva, North Dakota.
Geo. Watson Co., Velva, North Dakota.
Chas. C. Nichols, Velva, North Dakota.
James P. Hart, Velva, North Dakota.
Robert C. Murray, Velva, North Dakota.
Geo. Hanchett, Jr., Velva, North Dakota.
John J. Leson, Velva, North Dakota.
A. E. Cohrs, Wilton, North Dakota.
Mrs. Eliza McLellen, Wilton, North Dakota.
Aug. Asklund, Wilton, North Dakota.
Washburn Lignite Coal Co., Wilton, North Dakota.
Mr. Meihoff, Rosebud, North Dakota.
Frank Schemmelling, Rosebud, North Dakota.
E. E. H. Chase, Hebron, North Dakota.
H. Hinkle, Hebron, North Dakota.
Fred Hartman, Hebron, North Dakota.
Theo. Feland, Sinms, North Dakota.
Diamond Coal Co., New Salem, North Dakota.
A. R. Haven, Hebron, North Dakota.
Martin Petri, Hebron, North Dakota.
John Galligher, Hebron, North Dakota.
George Ding, Hebron, North Dakota.
Christ Haebner, New Salem, North Dakota.
Campbell Bros., Mandan, North Dakota.
Peter Wilmis, Glen Ullin, North Dakota.
Anton Lange, Glen Ullin, North Dakota.
Fred Frey, Glen Ullin, North Dakota.
Consolidated Coal Mfg. Co., Dickinson, North Dakota.
Zenith Coal Co., Belfield, North Dakota.
Farmers' Lignite Coal & Transportation Co., Columbus, N. D.
Gilley Coal Co., Columbus, North Dakota.

Wm. Schmidt, Columbus, North Dakota.
E. R. Domrese, Columbus, North Dakota.
Paul Schumann, Columbus, North Dakota.
John Mellen, Baden, North Dakota.
Mackee Coal Co., Portal, North Dakota.
L. M. Pratt, Columbus, North Dakota.
Harry Hart, Kenmare, North Dakota.
George Strong, Kenmare, North Dakota.
White Ash Coal Co., Donnybrook, North Dakota.
Lee & Dokken, Donnybrook, North Dakota.
White Earth Coal Co., White Earth, North Dakota.
Robinson Bros., White Earth, North Dakota.
A. J. McGlynn, Ross, North Dakota.
B. F. Kale, Stanley, North Dakota.
Hunvik & Erickson, Baden, North Dakota.
Blake Bros., Stanley, North Dakota.
John J. McIntosh, Donnybrook, North Dakota.
Bunker & Berghill, Sawyer, North Dakota.
Minot Coal & Brick Co., Burlington, North Dakota.
Mouse River Valley Coal Co., Burlington, North Dakota.
McClure Coal Co., Burlington, North Dakota.
Kenmare Diamond Coal Co., Kenmare, North Dakota.
Smith Dry Coal Co., Kenmare, North Dakota.
Kenmare Dry Coal & Mfg. Co., Kenmare, North Dakota.
Chas. O'Neil, Kenmare, North Dakota.
Bert J. Bertleson, Kenmare, North Dakota.
Jens Westergaard, Kenmare, North Dakota.
Soo Coal Co., Kenmare, North Dakota.
Libbie J. Ingison, Kenmare, North Dakota.
Mammoth Spring Mine, Sawyer, North Dakota.
John Hunvik, Baden, North Dakota.
D. S. Lloyd, Burlington, North Dakota.
Louis Lehmkuhl, Center, North Dakota.
Farmers' Co-operative Ass'n., Ellis, North Dakota.
Krauth & Albers, Hannover, North Dakota.
N. M. Tripp, Center, North Dakota.
V. R. Boener, Center, North Dakota.
John F. Albers, Pinto, North Dakota.
H. A. Lombard, Stillwater, North Dakota.
J. F. Brodie, Dickinson, North Dakota.

LICENSED COAL MINES.

No.	Date	Operator	County and Postoffice	Fee
	1907			
1	7-12	Zenith Coal Co.	Stark, Zenith	\$ 5.00
2	7-15	John J. Leeson	Ward, Velva	5.00
3	7-18	James P. Hart	Ward, Velva	5.00
4	7-22	Krauth & Albers	Oliver, Hannover ...	5.00
5	7-24	Carl Lueder	Morton, New Salem .	5.00
6	7-25	O. P. Hanson & Co...	Ward, Bowbells	5.00
7	7-29	Giddings Knowles	Ward, Velva	5.00
8	7-31	Consolidated Coal Co..	Stark, Lehigh	5.00
9	8- 2	Harry Hart	Ward, Kenmare	5.00
10	8- 5	C. C. Stafford	Ward, Velva	5.00
11	8- 8	Kenmare Diamond Coal Co.	Ward, Kenmare	5.00
12	8- 9	Libbie J. Ingison	Ward, Kenmare	5.00
13	8-14	L. M. Pratt	Ward, Columbus	5.00
14	8-28	White Earth Coal Mine	Ward, White Earth .	5.00
15	9-23	Geo. N. Dickerson	Ward, Velva	5.00
16	9-30	Washburn Lignite Coal Co.	Burleigh, Wilton	5.00
17	10- 3	E. R. Domrese	Ward, Columbus	5.00
18	10-14	Hunvik & Erickson ...	Ward, Baden	5.00
19	10-19	F. E. Blake	Ward, Stanley	5.00
20	10-26	Calvin Livingston	Adams, Hettinger ...	5.00
21	11-16	Smith Dry Coal Co....	Ward, Kenmare	5.00
22	11-19	A. S. Strong	Ward, Velva	5.00
23	11-27	C. B. Yiengst	Burleigh, Wilton	5.00
24	11-29	Mammoth Spring Coal Co.	Ward, Sawyer	5.00
25	12- 9	B. J. Bertelson	Ward, Kenmare	5.00
	1908			
26	2- 4	Oscar Ecklund	Burleigh, Wilton	5.00
27	5-20	Dave Wastlund	McKenzie, Schafer ..	5.00
28	6-22	John J. McIntosh	Ward, Donnybrook ..	5.00
		Total amount of fee..	.....	\$ 140.00

STATUTORY FEES.

Recording one brand and issuing certificate.....	\$ 2.00
Making certified copy of brand certificate.....	1.00
Registering one sire and issuing certificate.....	1.00
Making certified copy of sire certificate .....	.25
Entering transfer of sire certificate.....	.25
Filing report of and issuing coal mine license.....	5.00

SUMMARY.

Stock brand registration	\$1,382.00
Sire certificate registration	567.25
Licensed coal mines	140.00
Total	<hr/> \$2,089.25

STATE TREASURER'S RECEIPTS.

No.	Month	Amount
1906—		
10697	July	\$ 75.50
10915	August	56.00
11063	September	64.00
11149	October	80.00
0022.	November	77.00
0148	December	83.00
1907—		
655	January	28.00
841	February	47.25
945	March	120.50
1056	April	173.25
1118	May	215.25
1239	June	110.00
1873	July	120.50
2113	August	83.25
2330	September	57.75
2398	October	70.00
77	November	67.00
239	December	40.00
1908—		
265	January	50.50
1009	February	41.00
1120	March	89.25
1209	April	137.75
1271	May	114.75
1354	June	87.75
Amount turned into state treasury		\$ 2,089.25

ELEVENTH BIENNIAL REPORT

OF THE

Commissioner of Agriculture
and Labor

TO THE

GOVERNOR OF NORTH DAKOTA

For the Term Ending June 30, 1910

BISMARCK, N. D.
TRIBUNE, PRINTERS AND BINDERS
1910

LETTER OF TRANSMITTAL

STATE OF NORTH DAKOTA
DEPARTMENT OF AGRICULTURE AND LABOR. {
Bismarck, November 1, 1910.

Hon. John Burke, Governor of the State of North Dakota:

SIR: I have the honor to herewith transmit, and through you, to the legislature, the eleventh biennial report of the commissioner of agriculture and labor.

Respectfully submitted,

W. C. GILBREATH,
Commissioner.

1

INTRODUCTORY

The biennial period which is the subject of this report has been one of unexampled prosperity for the state of North Dakota. Socially, commercially, and especially in the field of agricultural industry, progress has been healthy and rapid, and, today, the state stands in the first rank of those commonwealths whose principal wealth is derived from the cultivation of the soil and its allied occupations.

Several causes have contributed to these desirable conditions. The principal one has doubtless been the practical realization by dwellers in other states of the great opportunities offered in North Dakota to the man who is willing to work, and the consequent large influx of an intelligent and well-equipped class of immigrants. In this manner the population has grown to upwards of 600,000 souls, representing the thrift and energy of the nation and guaranteeing in themselves the future prosperity of the state.

Another prominent factor in reaching our present prosperity has been the prolific yield garnered by the farming population. Both in acreage and average secured per acre in all crops raised results have been most satisfactory. Always one of the largest wheat-producing states in the Union, in 1909 North Dakota headed the list of spring wheat states with the enormous output of more than 93,000,000 bushels. Other crops have produced accordingly, and the acreage for 1910 promises a still greater increase in the future. Prices obtained for agricultural products during the period covered have been very satisfactory, especially during the marketing of the 1909 crop, and, if present markets and the outlook generally are any indication, it would seem that a permanent era of highly remunerative returns for labor expended on the farm has been inaugurated.

Railway development has kept pace with the general advance along all lines of industrial endeavor and it is certain that the close of the present year will see a mileage within the state of more than 6,000 miles, with no county without adequate means of transportation for its products. Lines at present being graded and surveyed total upwards of 1,300 miles, principally in the western parts of the state, which, when in operation, will open up millions of acres to the markets of the world.

Rural mail service, telegraph and telephone lines have been extended in every direction through the rural districts, and, by adding to the comfort of farm life have aided materially in the general progress.

The rapid shrinkage of government land available for homestead entry has also been a contributory cause to the influx of immi-

grants, and the time is evidently approaching when the free home will be a thing of the past. The realization of this fact has been responsible for a large portion of the settlement of the more western counties where such government land as is yet available is situated. An inevitable accompaniment of this condition has been the quick rise in price of contiguous land, which, in these regions is now approximating in price that of the older settled portions of the state. Compared however with the value of lands in Iowa, Indiana, Illinois and other more eastern states, prices in North Dakota yet seem ridiculously low, especially when it is considered that acre for acre the land of this state is the equal of any in the country and that the excellent railway facilities now offered give to our farmers all the advantages of rapid transportation service to the eastern and local markets, facilities equal to and in many instances superior to those of many older commonwealths.

Since the last biennial report of this department five new counties have been added to the state's roster, viz: Dunn, Mountrail, Sheridan, Burke and Renville, making the total number of forty-eight for the state. There now remains no part of the state unorganized, and such changes as may be consummated in the future will be such as follow the subdivision of some of the larger counties. Statistics given elsewhere in this report will reveal the truly stupendous progress made by these new counties, than which no more convincing testimony could be offered.

The manufacturing interests have made equal progress with agricultural development. This is especially true of the brick production of the counties of Morton and Stark, where the high quality of clay used has given the manufactured article more than a state reputation. The coal industry also shows a healthy growth and it is expected that a tremendous impetus will be given to it by the successful outcome of the maximum rate case in the supreme court of the United States. By this decision and the resulting readjustment of railway rates the area within which lignite coal can be offered in competition with eastern coals has been more than doubled and it is now possible to ship coal for commercial use as far east as the Twin Cities. Experimentation, with the view of producing an economical method of briquetting lignite coal at the mine without the use of artificial binders, or with such a binder that is stable and not too costly, has been continued both in the state school of mines and by private parties, and it is now claimed that success has crowned these efforts. Plants are to be installed at various mines and it is expected that the new product will revolutionize the coal trade of the state, by placing upon the market an article equal in every respect to the best eastern steam coals and at a greatly reduced prime cost. The production of power by means of especially devised gas machines for the use of producer gas manufactured from the native lignite has also been receiving the

attention of our state scientists and an early solution of the problem is promised.

In the northern parts of the state the discovery of natural gas has been followed by its practical adaptation to commercial uses, the town of Westhope now using it for both lighting, heating, household and other purposes.

While working test borings for a new bridge over the Missouri river at Emmonsburg, Emmons county, the engineers encountered a seven foot vein of excellent lignite coal, at a greater depth than any mining yet undertaken in that vicinity. This discovery indicates the possibility of deep mining on the eastern side of the river whenever demand for the product shall justify the undertaking.

One of the most indisputable evidences of the general prosperity which prevails throughout the state is the free purchase by our farmers of automobiles, both on account of their economic value and because of the opportunity for pleasurable relaxation which their use provides. In many parts at public functions and other occasions where communities gather together for business or pleasure, it is not uncommon for horse conveyances to be outnumbered by their modern rivals, and such is the heavy demand in the country districts that many of the agents for the different makes handle them by the carload; in one instance a whole train-load of favorite manufacture was shipped to one consignee, a larger proportion being sold before arrival, and a further order of nine carloads being necessary to fill the ensuing orders.

A commendable and important feature of present farming methods is the tendency to a healthy diversification of crops among our agriculturists. This is especially noticeable with regard to hay and fodder crops. Alfalfa has now been permanently established as a certain crop in every part of the state, largely owing to increased knowledge of its culture—heretofore but imperfectly understood—and a fuller appreciation of its great feeding value. Timothy, the clovers and other tame grasses have also been successfully raised, especially in the Red River Valley, where the stands secured rival in many instances the best raised in the famous tame grass regions of Minnesota.

That work of the department which relates to the gathering of statistics has again been the subject of much labor and correspondence, every effort having been put forth to secure the most reliable information possible under our present statutory provisions. While it is felt that much yet remains to be done, before the statistics gathered truthfully reflect agricultural conditions in every detail attempted to be covered, it must be noted that a distinct improvement is evident during the biennial period now under consideration. This has been accomplished by insistent correspondence maintained with the county auditors of the various counties, who in turn are faithfully endeavoring to impress upon the assessors entrusted with the actual collection

of the figures the necessity for rigid compliance with the requirements of the law. This has been supplemented in 1910 by the following personal communication to every assessor in the state, a perusal of which will convey to the reader some idea of the difficulties heretofore encountered:

"To the Assessor of Township, City or Village:

"MY DEAR SIR: The information to be gathered by you under the provisions of law will have no bearing, whatever, on taxation. Statistics are withheld from and positively are of no benefit to speculators and board of trade operators, who have their own means for making "estimates" at least a year and a half in advance.

"Thoroughly familiarize yourself with requirements. Inability to obtain data does not justify you in failure. The most accurate returns that the circumstances permit must be obtained. If farm records are not available, careful estimates should in all cases be secured, or made.

"See that the acreage cultivated, and acreage not cultivated aggregates the total farm acreage; that is, such figures must represent all the land regularly tilled or mowed, land pastured and cropped in rotation, land lying fallow, land in gardens, orchards, vineyards, and land occupied by buildings. If a person owns certain lands, and rents additional land, the whole thereof must be accounted for by the person who actually farms the entire acreage, as these figures will be the basis of all subsequent compilations.

"Give detailed data asked for by schedules for every crop and production, every kind of animal, the different values, coal mines, vital statistics, farm labor, dairy industries, etc. Secure the closest possible estimates on dairy products—get exact number of cows or heifers milked, and consider all products reserved for home consumption with that sold to private customers, stations, creameries, or factories. Give equally close attention to manufactories and other industries, labor organizations, elevators and warehouses, flouring mills, etc.

"Heretofore there has been so much neglect on the part of a few assessors in gathering statistics that your auditor has been utterly unable to give the state a just and comprehensive report on his county. The careless indifference of only one assessor reflects upon the entire county. Ask the auditor to show you the law covering your duties.

"Your auditor is familiar with every detail of the work, and if you do not fully understand your duties, do not leave his office until he has had an opportunity to instruct you. He will cheerfully do this.

"If at any time this department can be of service to you, do not hesitate to write me.

Yours very truly,

W. C. GILBREATH,
State Statistician.

The latest compilation of agricultural statistics comprises several new items, which cannot fail to be of value and interest to the public. Among these may be mentioned that relating to the acreage and yield of macaroni wheat in the state. This wheat is now recognized as one of the staple crops and it is fitting that exact information should be had on these points. Clover, timothy and alfalfa are similarly treated, the increasing and successful culture of these justifying exact figures which were formerly bulked under the heading of "other tame grasses." Winter wheat, hullless barley and winter rye may also be mentioned as now coming under separate headings.

In the report of this department for the biennial period ending June 30, 1908, the following passage occurred:

Under the present estray law, each person taking up stock is required, within ten days after assuming control of such stock, to give notice of the finding and taking up thereof in a weekly newspaper, and each person is further required to mail to the Commissioner of Agriculture and Labor a true copy of such notice. A great majority of these notices come to this office in the form of either pencil or typewritten memoranda, and as this department has required a clipping of the printed notice as it appeared in the newspaper, a vast amount of correspondence has been necessitated. Nearly all this letter writing might be obviated if the law was amended to read: "Clipping of the printed notice as it actually appeared in the newspaper," instead of "true copy," as it now reads.

The same conditions referred to in the above still exist. Owing to the pressure of business during the closing days of the 1909 session of the state legislature this much needed legislation failed of passage, and it is urged that an amendment as suggested be adopted at the earliest opportunity. The law continues to be of much practical benefit to live stock owners, inquiries received by the department concerning lost stock nearly always resulting in owners being placed in communication with the parties who took up the estrays. The only failures are traceable to inaccurate or inadequate descriptions.

The statutory amendment recommended by this department in the last report, relating to the transfer and cancellation of recorded brands, and which was enacted by the 1909 legislature, has been entirely satisfactory in its workings, and the records of the office in this respect are now very complete, more than 12,500 brands being of record.

The following recommendation relating to coal mines was made in the same report:

The coal mine law does not make any distinction between a subterranean mine and a mere pit, which latter often supplies fuel only for the owner himself. There have been many protests against the license proposition, the fee for which is the same whether the output

be one hundred tons, five hundred thousand tons, or more. The reports have not been complete, because the operators have not kept records covering all the data required. The list of licensed mines covers only those that paid on or before June 30, 1908, since which time a few others have also paid their \$5.00 fee.

No action was taken by the last legislature along the lines suggested, and the protests referred to have continued.

The law passed by the 1907 legislature, requiring the filing with the commissioner of agriculture and labor of information relating to the holding of county fairs and the nature of exhibits, with other information, has proved a useful and satisfactory piece of legislation, this office being now able to furnish information to all enquirers on the subject and possessing a complete list of all such fairs to be held in the state.

The law enacted by the 1909 legislature, establishing a Stallion Registration Board, requiring owners to secure a license, and changing the place of registration to the Agricultural College at Fargo, became operative January 1, 1910, and the business of the board has been conducted from that place since. Many enquiries are yet, however, received by this department from owners who do not seem to know of the change.

Possibly the work of this department which has resulted in the greatest benefit to the state, both present and prospective, has been that accomplished in connection with the promotion of immigration. At the last session of the legislature the sum of \$30,000 was appropriated for this purpose and it is believed that the good results obtained amply justify the expenditure of this or even a much larger sum. In furthering the object of this appropriation the department has taken for its watchword, "Publicity," and has endeavored to take advantage of every opportunity offered to place before possible settlers the many vast resources of the state and its splendid offerings to the merchant, manufacturer and farmer. Following along lines which previous experience has indicated to be highly effective, carefully selected representative samples of the state's agricultural and industrial products have been attractively arranged in cabinets and exhibited at state and other fairs in the states of Indiana, Iowa, Wisconsin and Illinois. These exhibits have been in charge of competent officials, well posted in regard to the subjects offered for inspection and supplied with literature pertinent to and corroborative of the exhibit. While it is of course impossible to tabulate the exact results accruing from this method of exploitation, it is certain that they have been fruitful, for from these states come by far the greatest number of enquiries asking for further information. The grains, grasses and other products exhibited at these fairs are secured by means of preliminary contests open to all the farmers of the state in which prizes are offered for the most attractive and meritorious displays. The interest dis-

played by farmers in these contests is most gratifying and it is believed that the friendly rivalry thus created has been of great value in fostering more careful methods of soil culture and seed selection generally.

One of the most elaborate exhibits ever sent out from this state was the one on view at the great Corn Exposition held at Omaha, Nebraska, in December, 1909. Every grain, grass, mineral and industrial product was well represented, and, when arranged to the best advantage, presented a concrete whole so striking in appearance and convincing in the testimony offered of North Dakota's wealth and progress, that it became the cynosure of all eyes and the center of attraction in the agricultural pavilion of the exposition. A special effort was made on this occasion to make known the progress of the state in the culture of corn, and the educative value of the display to those who had previously placed North Dakota without the corn belt of the states, alone justified the work and expense undertaken in preparing the exhibit. The samples offered of well-ripened, even-rowed dent and other corns, picked from fields whose average yield equalled many of the well known corn states, carried conviction to thousands who had previously refused to believe that the cereal could be raised in a latitude so far north.

The publication of the North Dakota Magazine has been continued along the lines projected at the time of its inception, and there is every reason to believe that it constitutes a most useful medium for attracting the attention of thousands of prospective settlers who are seeking a refuge in the west from the crowded conditions existing in so many of the eastern and mid-western states. The main feature of the publication consists of its wood-cuts, with which it is plentifully interleaved. These illustrations are of actual, every day happenings, landscapes and other scenes within the state, so arranged as to convey to the reader a correct idea of the home life, physical attributes, commercial and industrial development of the commonwealth. The letter-press consists of historical and descriptive articles written on special subjects of timely interest by well known and conservative authorities, editorial contributions, verse, statistics, all intimately relating to the state, its aims and aspirations, the ultimate object of which is to present to the reader a plain, unvarnished, yet withal entertaining and readable statement of conditions as they actually exist, in the hope of exciting interest in the splendid agricultural, commercial and industrial opportunities existing on every hand.

An important educational function of the department has been its issue, from time to time, of accurate and up-to-the-minute state maps. Such has been the growth of the state in farming, railway and commercial industries that this involves a re-issue at frequent intervals, showing the latest counties, railways and other features. These maps are eagerly sought for by enquirers, both from within

and without the state boundaries, and the rapidity with which they are disposed of is held to be a most encouraging indication of the widespread desire for the latest data on our progress. On the back of these maps is printed statistical information in tabulated and concrete form, relating to agricultural production, education, banking and other subjects likely to interest the progressive citizen. The latest issue of the department in this class has been a wall map of more pretentious appearance than the smaller pocket and folder maps. The map itself is a larger reproduction of the smaller one, the margin consisting of a gazetteer, descriptive write-ups of all the state institutions, and a vast amount of other valuable information. Its success was spontaneous and immediate and many times the number printed could be disposed of.

Another successful innovation introduced by the department in 1909 has been the publication of weekly crop reports during the growing season. An endeavor was made to procure a reliable correspondent in each county of the state who would furnish a brief weekly summary of crop conditions for his county. While the department was unable to procure response from every county yet sufficient were secured to cover the whole state and enable the compilation of reliable weekly bulletins. These were mailed to numerous points throughout the state and were available for all who sought this class of information.

The financial depression in the eastern states during 1908, and consequent stagnation of many industries, offered another opportunity for calling public attention to the many opportunities offered to the willing worker in North Dakota. This was accomplished by insertion in prominent eastern and mid-western papers of short advertisements soliciting correspondence with any one desirous of changing their occupation and engaging to make their wants known to 5,000 people throughout the state. Hundreds of answers were received to these advertisements. These were epitomized, as they arrived from time to time, and sent out to the various commercial clubs throughout the state, where they were in turn posted on the bulletin boards and given publicity in other ways. In this manner correspondence between merchants, farmers, and others, wanting help, and those seeking it, was started, resulting in the permanent location within the state of many industrious and useful citizens.

AUTHORITY

QUOTATION FROM THE LAW REQUIRING COMMISSIONER OF AGRICULTURE AND LABOR TO PREPARE STATISTICS.

"The Commissioner of Agriculture and Labor shall be the state statistician. It shall be his duty to obtain from the assessors and other officers of the organized counties of the state, and to collate and prepare in tabulated form for reference, statistics showing the assessed valuation of all real and personal property, the acreage and yield of all kinds of grain and tame grasses, the number of horses, cattle, sheep and other live stock, and other information pertaining to, and showing the condition of the growth, development and resources of the state by counties."

Nelson	3,062,399	988,974	606,015	2,533	17,068	5,022	.....	4,682,511
Oliver	634,788	234,307	.....	.....	990	.....	.....	860,083
Pembina	3,891,821	1,092,708	862,597	9,443	20,935	9,154	.....	5,886,853
Pierce	2,508,235	680,399	400,200	3,315	6,063	3,867	.....	3,602,579
Ramsey	3,938,514	1,242,619	858,376	4,494	19,226	6,648	.....	6,069,877
Ransom	2,666,374	738,698	511,569	5,102	14,322	4,287	.....	3,940,352
Richland	6,620,228	1,587,193	1,910,351	17,870	24,564	16,147	.....	10,126,352
Rolette	2,030,791	698,376	486,260	2,921	3,006	4,629	.....	3,226,483
Sargent	2,390,095	886,346	910,154	11,420	14,761	9,540	.....	4,172,316
Sheridan	.....	.....	.....	.....	.....	.....	.....	.....
Stark	2,231,617	755,392	627,168	5,591	5,710	4,708	.....	3,630,136
Steele	2,831,799	731,652	361,175	3,408	13,525	2,870	.....	3,944,259
Stutsman	6,258,185	1,364,788	1,172,828	12,053	27,392	10,113	.....	8,846,359
Towner	3,210,726	796,766	636,083	5,434	8,805	4,480	.....	4,662,294
Trall	4,271,733	1,112,573	678,545	7,884	31,565	6,763	.....	6,105,063
Walsh	5,684,227	1,353,690	1,525,323	12,660	27,865	10,524	.....	8,614,268
Ward	10,324,423	4,018,289	3,192,905	18,202	33,449	23,224	.....	17,616,491
Wells	3,587,701	982,294	665,887	5,704	11,107	4,660	.....	5,257,353
Williams	3,057,974	1,400,681	957,975	7,368	8,193	7,577	.....	5,432,763
Total...	\$146,741,087	\$45,662,086	\$33,516,618	\$284,390	\$694,782	\$274,923	\$ 29,070	\$227,202,956

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1909.

Number of farms in North Dakota	69,172
Number of acres under cultivation	12,348,447
Number of acres in farms (cultivated and uncultivated)	20,790,174

AGRICULTURAL PRODUCTS FOR 1908.

Crop	Acres Sown (Planted)	Acres Harvested	Busheis Harvested (Tons cut)
Wheat	5,747,996	5,554,505	69,426,304
Oats	1,649,053	1,604,803	34,624,137
Barley	1,077,112	1,044,094	18,121,327
Flax	1,093,151	1,051,053	8,376,854
Rye	34,932	33,716	432,882
Speltz	81,721	77,460	1,536,052
Corn	123,839	*86,216	738,786
Potatoes	30,569		2,833,844
Roots of all kinds	2,890		83,683
Millet and Hungarian	65,907		73,591
Brome Grass	28,939		23,887
Other tame hay	128,110		131,875

*Fodder.

Tons of prairie hay cut, (1,690,074.)

ACREAGE LOST BY HAIL, 1908.

	Acres.
Total loss	87,055
Three-fourths loss	63,562
One-half loss	43,756
One-fourth loss	65,621

CROP ACREAGE FOR 1909.

Wheat	6,872,601½
Oats	1,867,069½
Barley	1,157,260
Flax	850,269
Rye	58,149½
Speltz	88,099
Corn	168,452½
Potatoes	50,126½
Roots of all kinds	2,419
Millet and Hungarian (hay)	88,943½
Brome grass	20,172½
Other tame grasses	166,765½

Total acreage of crop (including tame grasses)	11,228,738½
Value of garden products sold, 1908	\$ 116,991.20
Value of poultry and eggs sold, 1908	583,405.63



Morton County.

- 1—St. Anthony. 2—Custer Flats, South of Mandan.
 3—Railroad Grade, Flasher. 4—Railroad Grade, Mandan.

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DAIRY PRODUCTS FOR 1908.

Number of pounds of butter (made in families).....	7,714,324
Number of pounds of cheese (made in families).....	58,827
Value of milk sold other than to cheese factories and creameries	\$ 153,199.55
Value of milk sold to cheese factories and creameries or made into butter by such factories.....	537,731.60
Number of pounds of milk sold to cheese factories.....	594,584
Number of pounds of milk sold to creameries.....	5,059,055
Number of pounds of cream sold to creameries.....	5,037,541
Number of cows used for dairying in 1909.....	145,739

Number of sheep sheared in 1908.....	209,724
Number of pounds of wool clipped in 1908.....	1,210,143
Number of fruit trees in bearing in 1908.....	23,824
Number of fruit trees not in bearing in 1908.....	111,056
Number of acres of berries of all kinds in 1908.....	5,807
Value of fruit sold in 1908.....	\$ 2,018.85
Number of acres of artificial forests	109,654

NUMBER OF LIVE STOCK IN 1909.

Horses	444,840
Mules	7,067
Cattle	504,455
Sheep	226,920
Hogs	151,813

Value of all animals fattened and killed for home use and sold to local butchers, 1908.....	\$1,870,012.07
Value of cattle, hogs and sheep sold for market and shipped out of state, 1908.....	3,604,225.50
Value of horses sold for market outside of state.....	1,370,433.50
Value of all live stock brought into state, 1908.....	633,616.20

COAL MINES, 1908.

Number of mines operated.....	88
Number of tons of coal mined.....	289,435
Total wages paid coal miners.....	\$ 214,651
Number of men employed.....	746

VITAL STATISTICS.

Number of males living and employed on farms.....	145,824
Number of females living and employed on farms.....	117,101

FARM LABOR STATISTICS, 1908.

Number of males employed.....	29,469
Number of females employed.....	7,179
Amount of wages paid during the year.....	\$8,606,058.35

Number of births.....	6,447
Number of deaths.....	1,542

NUMBER OF FARMS AND ACREAGE, 1909.

COUNTY	Total No. Farms	Total No. Acres under Cultivation	Total No. of acres in farms, cultivated and uncultivated
Adams	1,591	50,449	274,745
Barnes	1,623	538,006	716,816
Benson	1,418	332,950	698,343
Billings	1,078	52,527	158,787
Bottineau	3,290	522,000	1,053,000
Bowman	506	33,469	82,466
Burleigh	1,239	127,768	323,196
Cass	1,715	708,784	792,586
Cavalier	3,000	411,084	918,563
Dickey	990	249,142	439,042
Dunn	847	40,398	247,459
Eddy	597	164,768	244,337
Emmons	1,312	130,512	363,231
Foster	550	240,784	298,324
Grand Forks	1,799	564,396	712,220
Griggs	819	260,811	339,138
Hettinger	1,250	84,363	272,910
Kidder	2,469	87,371	159,598
LaMoure	1,000	359,435	519,640
Logan	1,118	101,085	286,645
McHenry	2,075	587,195	693,708
McIntosh	700	127,125	299,250
McKenzie	1,596	56,100	255,401
McLean	3,750	214,197	600,000
Mercer	1,015	56,678	193,279
Morton	2,015	196,166	668,330
Mountrail	2,028	122,377	376,229
Nelson	1,035	345,457	491,099
Oliver	767	58,594	198,245
Pembina	1,414	417,904	528,598
Pierce	1,500	248,820	358,981
Ramsey	1,348	400,783	554,815
Ransom	1,065	236,415	341,657
Richland	1,669	390,033	510,124
Rolette	1,010	193,177	323,024
Sargent	980	191,932	348,197
Sheridan	1,400	162,973	300,877
Stark	697	241,536	402,560
Steele	831	292,514	362,752
Stutsman	2,020	571,818	714,347
Towner	1,053	368,223	483,727
Traill	1,325	310,297	389,299
Walsh	2,143	499,299	656,525
Ward	3,765	527,963	935,557
Wells	983	288,408	473,269
Williams	2,777	182,361	529,278
Totals	69,172	12,348,447	20,790,174

WHEAT, 1908.

COUNTY.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	4,070	3,978	31,637	7.95
Barnes	287,727	287,119	3,815,423	13.42
Benson	199,116	194,935	2,081,160	10.67
Billings	8,150	8,096	94,236	17.63
Bottineau	300,000	295,000	2,950,000	10.00
Bowman	1,228½	1,215	13,296	10.94
Burleigh	49,457	43,452	723,694	16.42
Cass	356,418	305,483	4,295,142	14.06
Cavalier	209,513	209,385	2,762,802	13.19
Dickey	116,320	114,511	1,625,299	14.19
Dunn	14,041	14,025	168,767	12.03
Eddy	87,612	87,027	728,545	8.67
Emmons	76,888	68,352	522,147	7.63
Foster	104,543	104,098	1,086,955	10.44
*Grand Forks	257,062	256,431	3,384,429	13.23
Griggs	138,811	136,701	3,360,180	24.58
Hettinger	29,659	29,456	309,135	10.49
Kidder	19,807	18,912	138,055	7.29
LaMoure	183,469	179,551	2,067,393	11.51
Logan	55,838	49,519	399,845	8.07
McHenry	215,823	213,714	3,119,381	14.51
McIntosh	69,291	69,091	537,408	7.77
McKenzie	8,334	8,216	74,618½	9.08
McLean	86,112	79,144	530,474	6.44
Mercer	29,637	29,637	306,198	10.33
Morton	95,540	94,707	948,067	10.04
Mountrail	45,569	36,286	295,823	8.15
Nelson	168,090	166,198	1,713,500	10.31
Oliver	31,297	30,130	344,102	11.42
Pembina	174,911	173,856	2,076,412	11.36
Pierce	144,683	135,833	1,965,489	14.46
Ramsey	203,608	197,578	1,946,995	10.36
Ransom	126,687	120,910	1,809,503	14.96
Richland	190,626	164,877	2,337,080	14.10
Rolette	93,917	93,517	1,517,297	16.01
Sargent	93,567	93,417	1,466,674	15.70
Sheridan	73,270	73,270	845,447	11.40
Stark	24,500	23,700	452,570	15.76
Steele	145,606	145,135	2,000,981	13.78
Stutsman	118,972	99,236	1,540,876	15.52
Towner	194,080	193,970	2,653,750	13.62
Traill	161,892	164,990	2,381,684	14.43
Walsh	242,247	237,715	2,968,038	12.48
Ward	260,139	260,008	2,756,271	10.50
Wells	179,064	179,064	1,750,248	9.25
Williams	72,805	63,060	529,278	8.23
Totals	5,747,996½	5,554,505	69,426,304½	13.00

OATS, 1908.

COUNTY.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	9,193	8,401	88,461	10.53
Barnes	69,942	68,413	1,732,376	25.61
Benson	41,574	41,122	961,400	23.37
Billings	12,453	12,437	228,932	18.40
Bottineau	68,000	67,000	1,676,000	25.01
Bowman	4,483	4,412	73,767	9.91
Burleigh	20,046	18,965	227,381	11.99
Cass	79,131	72,463	1,996,681	27.55
Cavaller	70,996	70,991	1,791,608	25.23
Dickey	24,978	24,632	545,092	22.12
Dunn	10,809	10,796	228,769	21.19
Eddy	22,822	22,085	438,369	19.84
Emmons	13,675	12,361	188,665	15.26
Foster	30,681	30,663	753,352	24.56
Grand Forks	76,745	75,785	1,770,576	23.36
Griggs	34,520	34,103	903,197	26.48
Hettinger	18,791	17,495	268,567	14.77
Kidder	13,547	12,922	155,412	12.02
LaMoure	53,077	50,589	637,650	12.60
Logan	9,195	8,900	147,587	16.58
McHenry	61,743	61,740	1,649,519	26.71
McIntosh	5,867	5,867	87,649	14.93
McKenzie	14,281	15,053	275,064	10.96
McLean	34,784	31,348	319,546	10.19
Mercer	10,983	10,960	182,379	16.64
Morton	35,344	34,595	84,334	2.45
Mountrail	21,787	17,291	226,532	13.10
Nelson	43,923	43,635	714,057	16.13
Oliver	13,800	13,027	281,344	26.18
Pembina	53,488	52,660	1,285,239	24.40
Pierce	29,975	29,975	838,547	27.97
Ramsey	40,921	40,403	691,020	17.10
Ransom	34,817	32,912	814,018	24.73
Richland	75,762	71,620	1,420,439	18.83
Rolette	29,217	28,977	682,178	23.54
Sargent	22,336	22,247	592,908	26.65
Sheridan	21,681	21,681	459,213	21.13
Stark	14,600	14,300	465,000	32.51
Steele	36,624	36,604	1,007,065	27.23
Stutsman	58,228	54,510	1,002,901	18.38
Towner	48,750	48,650	1,305,468	26.85
Traill	38,006	38,006	987,934	25.99
Walsh	62,377	61,608	1,465,317	23.78
Ward	78,967	78,684	1,490,126	18.93
Wells	39,413	39,360	930,797	23.64
Williams	35,721	34,555	551,701	15.96
Totals	1,649,053	1,604,803	34,624,137	21.55

BARLEY, 1908.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	280	280	1,870	6.60
Barnes	67,232	63,646	1,193,876	18.75
Benson	30,922	30,752	512,423	16.09
Billings	611	607	9,800	16.14
Bottineau	34,000	33,000	555,000	16.80
Bowman	332	320	4,068	12.70
Burleigh	1,727	1,539	16,797	10.90
Cass	73,284	66,020	1,452,258	21.99
Cavalier	57,380	57,290	917,171	16.44
Dickey	32,337	32,023	669,375	20.90
Dunn	714	714	13,777	14.29
Eddy	10,765	10,526	166,259	15.78
Emmons	5,853	5,630	98,446	17.48
Foster	29,719	29,672	535,711	18.04
Grand Forks	65,371	64,281	1,063,237	16.54
Griggs	27,202	27,066	565,533	20.89
Hettinger	653	639	8,792	13.75
Kidder	3,413½	3,295½	37,655	11.12
LaMoure	40,484	40,069	663,002	16.54
Logan	8,661	4,541	77,233	17.20
McHenry	19,002	18,002	386,254	21.45
McIntosh	5,685	5,685	114,560	20.15
McKenzie	436	435½	7,176	16.47
McLean	3,319	2,654	28,630	10.74
Mercer	669	669	9,949	14.85
Morton	2,546	2,297	35,428	15.42
Mountrail	1,063	793	7,062	8.90
Nelson	33,412	32,927	464,156	14.09
Oliver	803½	775½	13,253	17.10
Pembina	86,133	84,548	1,411,944	16.69
Pierce	18,382	14,294	296,122	20.70
Ramsey	40,478	39,793	494,066	12.41
Ransom	16,973	16,539	339,447	20.52
Richland	39,526	39,477	827,660	20.96
Rolette	20,343	20,127	419,069	20.82
Sargent	19,858	19,798	444,385	22.44
Sheridan	5,164	5,154	74,622	14.47
Stark	760	740	8,700	11.75
Steele	35,731	35,016	774,297	22.11
Stutsman	40,273	37,176	380,001	10.22
Towner	41,372	41,214	804,625	19.52
Traill	56,518	55,920	613,461	10.97
Walsh	63,259	62,703	980,696	15.64
Ward	9,344	9,338	150,483	16.10
Wells	23,822	23,812	448,629	18.84
Williams	2,310	2,297	24,369	10.60
Totals	1,077,112	1,044,094½	18,121,327	17.50

FLAX, 1908.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	17,796	15,540	47,759	3.08
Barnes	35,449	34,819	424,217	12.18
Benson	23,925	22,995	167,132	7.26
Billings	11,770	77,668	76,414	6.54
Bottineau	36,000	36,000	288,000	8.00
Bowman	4,351	4,242	16,438	3.88
Burleigh	28,620	27,309	113,347	4.20
Cass	24,687	24,339	262,820	10.79
Cavalier	7,836	7,786	51,361	6.59
Dickey	36,264	36,070	374,889	10.39
Dunn	7,439	7,097	48,286	6.80
Eddy	12,364	11,156	85,099	7.62
Emmons	21,533	20,772	174,544	8.40
Foster	8,211	7,696	69,301	9.00
Grand Forks	33,408	32,770	298,783	9.11
Griggs	21,897	21,680	221,070	10.19
Hettinger	11,815	10,555	54,359	5.15
Kidder	27,717	27,320	149,134	5.09
LaMoure	50,183	48,594	407,370	8.38
Logan	29,981	27,051	225,958	8.35
McHenry	38,041	34,254	300,461	8.77
McIntosh	17,695	17,695	148,664	8.40
McKenzie	14,601½	13,796½	80,383½	5.85
McLean	71,094	69,289	337,979	3.44
Mercer	9,181	9,181	55,271	6.02
Morton	26,400	25,940	178,387	6.87
Mountrail	27,929	24,451	138,166	5.65
Nelson	27,401	27,401	195,568	7.14
Oliver	6,160	5,423	37,914	6.99
Pembina	9,893	9,790	105,815	10.80
Pierce	13,277	13,277	179,562	13.52
Ramsey	18,998	18,243	116,815	6.43
Ransom	18,674	17,775	211,379	11.89
Richland	19,498	15,000	191,022	12.73
Rolette	12,444	11,325	93,025	8.21
Sargent	17,589	17,458	215,419	12.33
Sheridan	16,538	16,538	147,320	8.96
Stark	1,700	1,655	12,200	7.37
Steele	20,736	20,404	237,973	11.66
Stutsman	70,234	68,426	498,961	7.29
Towner	29,316	29,316	269,706	9.19
Trall	10,600	9,944	126,657	12.73
Walsh	22,407	21,994	222,439	10.11
Ward	70,686	70,466	382,464	5.42
Wells	18,147	17,999	175,389	9.75
Williams	32,667	28,540	161,634	5.66
Totals	1,093,151½	1,051,039½	8,376,854½	8.00

RYE, 1908.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams .....	.....	.....	.....	.....
Barnes	472	392	6,452	16.46
Benson	739	719	11,251	15.64
Billings	45	45	793	17.62
Bottineau	417	417	5,004	12.00
Bowman	20	20	200	10.00
Burleigh	1,411	1,400	10,982	7.88
Cass	4,633	4,375	77,069	17.61
Cavalier	34	34	626	18.41
Dickey	97	97	1,587	16.36
Dunn	16	16	183	11.43
Eddy	3,996	3,996	32,139	8.04
Emmons	178	178	2,685	15.08
Foster	3,470	3,390	39,899	11.76
Grand Forks	623	623	9,082	14.57
Griggs	2,795	2,795	35,381	12.69
Hettinger	5	5	60	12.00
Kidder	2,747	2,747	19,696	7.13
LaMoure	81	81	707	8.72
Logan	244	244	2,947	12.07
McHenry	1,272	1,122	12,531	11.16
McIntosh	20	20	275	13.75
McKenzie	45	45	723	16.06
McLean	175	150	1,277	8.51
Mercer	20	20	347	17.35
Morton	140	140	1,700	12.14
Mountrail	74	74	914	12.35
Nelson	482	412	4,007	9.72
Oliver	27½	30	378	12.06
Pembina	397	372	4,172	11.21
Pierce	77½	77½	883	11.39
Ramsey	437	437	4,397	10.06
Ransom	155	195	3,007	15.42
Richland	1,760	1,665	44,444	26.69
Rolette	200	200	3,627	18.13
Sargent	40	25	200	8.00
Sheridan	815	815	8,081	9.91
Stark	750	690	4,300	6.23
Steele	120	117	1,865	15.94
Stutsman	1,002	862	8,729	10.11
Towner	180	180	2,500	13.88
Traill	1,589	1,578	31,930	20.23
Walsh	179	15½	685	44.18
Ward	232	232	3,489	15.03
Wells	2,604	2,604	30,814	11.83
Williams	116	64	864	13.03
Totals	34,932	33,716	432,882	13.00

SPELTZ, 1908.

County.	Acres sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	337	318	3,332	10.47
Barnes	957	923	25,433	27.55
Benson	690½	680½	16,944	24.89
Billings	347	347	7,103	26.47
Bottineau	639	631	1,664	2.63
Bowman	72	72	1,231	17.09
Burleigh	4,469	4,151	50,949	12.27
Cass	336	336	7,980	23.75
Cavalier	353	353	9,629	26.98
Dickey	7,914	7,834	175,893	22.45
Dunn	226	226	5,312	23.50
Eddy	1,213	1,213	21,850	18.01
Emmons	7,153	6,625	110,284	16.64
Foster	2,382	2,319	56,952	24.12
Grand Forks	455	443	10,977	24.75
Griggs	689	671	18,905	28.17
Hettinger	913	898	13,006	14.45
Kidder	2,700½	2,429½	24,530	10.09
LaMoure	4,246	4,243	78,466	18.45
Logan	6,874	4,980	109,501	21.98
McHenry	1,712	1,692	42,962	25.33
McIntosh	7,139	7,039	135,991	19.31
McKenzie	135½	132½	2,710	20.46
McLean	1,277	1,159	15,327	13.22
Mercer	798	773	11,369	14.70
Morton	1,242	1,206	22,847	18.11
Mountrail	355	232	2,626	11.31
Nelson	785	760	3,707	4.57
Pembina	21	14	400	28.57
Pierce	666	666	16,845	25.29
Ramsey	1,338	1,175	17,902	10.98
Ransom	2,232	2,232	60,960	27.31
Richland	923	923	25,165	27.26
Rolette	217	217	6,000	27.64
Sargent	6,105	6,090	170,288	27.96
Sheridan	631	631	16,646	26.38
Stark .....	.....	.....	.....	.....
Steele	170	170	5,864	34.49
Stutsman	4,593	4,471	72,682	14.01
Towner	2,026	2,006	47,196	23.52
Trall	68	58	1,780	30.68
Walsh	105	105	2,165	20.61
Ward	2,163	2,163	50,267	23.21
Wells	2,616	2,616	30,045	11.48
Williams	1,215	1,035	20,112	19.43
Totals	81,721½	77,460½	1,536,052	19.85

CORN, 1908.

COUNTY.	Acres planted.	Bushels husked.	Acres cut for fodder.
Adams	1,487	10,078	696
Barnes	2,737	12,670	1,655
Benson	219½	270	209
Billings	477	4,146	209
Bottineau .....	.....	.....	266
Bowman	115	340	86
Burleigh	4,142	41,784	1,000
Cass	27,344	67,221	23,169
Cavalier	192	200	179
Dickey	4,297	37,395	1,345
Dunn	496	3,468	256
Eddy	473½	35	231
Emmons	4,576	72,444	1,940
Foster	367½	377	322
Grand Forks	4,297	5,265	4,064
Griggs	318	.....	280
Hettinger	1,178	11,641	208
Kidder	338½	3,677	177
LaMoure	2,351	9,630	909
Logan	1,315	1,135	62
McHenry	888	539	139
McIntosh	259	255	4
McKenzie	299	5,007	123
McLean	681	2,835	336
Mercer	921	6,253	11,369
Morton	4,292	58,800	497
Mountrail	48½	240	33
Nelson	566	700	474
Oliver	1,116½	10,332	425
Pembina	1,195	72	1,192
Pierce	157	500	144
Ramsey	754	329	741
Ransom	4,517	31,460	3,102
Richland	25,031	175,794	9,894
Rolette	152½	80	.....
Sargent	5,428	85,906	1,770
Sheridan	494	3,500	32
Stark	3,500	34,700	2,250
Steele	2,224½	410	2,171½
Stutsman	1,140	4,834	839
Towner	213½	.....	213½
Trall	9,354	77	9,277
Walsh	1,316	862	1,383½
Ward	1,196	8,180	1,100
Wells	976	3,340	896
Williams	398	2,090	548
Totals	123,839	738,876	86,216½

POTATOES, 1908.

COUNTY	Acres planted.	Bushels harvested.	Av. Yield Bushels harvested.
Adams	433	18,834	43.49
Barnes	514	109,448	212.93
Benson	409¾	48,523	118.42
Billings	329	16,897	51.35
Bottineau	760	83,000	109.21
Bowman	150	5,590	37.26
Burleigh	731	50,554	69.15
Cass	2,406	150,223	62.43
Cavalier	601	81,512	135.64
Dickey	534	47,498	88.94
Dunn	258	19,021	73.72
Eddy	491¼	38,541	78.47
Emmons	463	46,219	99.82
Foster	360¼	40,674	112.90
Grand Forks	2,395	187,468	78.27
Griggs	340¾	34,132	100.27
Hettinger	437	24,400	55.83
Kidder	383½	29,057	75.76
La Moure	579	48,579	83.90
Logan	334	24,300	72.75
McHenry	690¾	87,998	127.39
McIntosh	519	259,950	500.86
McKenzie	212	16,070½	75.79
McLean	731	48,690	66.65
Mercer	128	11,696	90.59
Morton	1,039	83,212	80.18
Mountrail	810¾	26,398	32.54
Nelson	737	49,010	66.49
Oliver	318¼	27,903	87.45
Pembina	669	114,562	171.24
Pierce	517¾	46,780	90.41
Ramsey	740	14,878	20.10
Ransom	471	44,764	95.04
Richland	1,101	84,326	75.68
Rolette	536	79,817	148.91
Sargent	517¼	39,881	77.11
Sheridan	264	34,135	129.28
Stark	950	5,200	54.73
Steele	360	36,911	102.53
Stutsman	907	91,415	100.78
Towner	491	61,127	124.49
Traill	964	35,810	37.13
Walsh	1,050	137,678	131.12
Ward	1,735	171,693	98.95
Wells	399	61,710	154.66
Williams	803	57,760	71.93
Totals	30,569½	2,833,844½	92.05

ROOTS OF ALL KINDS, 1908.

COUNTY	Acres Planted	Bushels Harvested
Adams	39	2,794
Barnes	1,276	835
Benson	4 $\frac{1}{4}$	2,219
Billings	10	1,084
Bottineau .....	.....	.....
Bowman	10 $\frac{1}{2}$	300
Burleigh	8	723
Cass	29 $\frac{1}{4}$	1,095
Cavalier	93	22,063
Dickey	3	200
Dunn	31 $\frac{3}{4}$	1,289
Eddy	5 $\frac{1}{2}$	345
Emmons	4 $\frac{1}{2}$	375
Foster	7 $\frac{3}{4}$	522
Grand Forks	9	4,366
Griggs	1 $\frac{1}{4}$	266
Hettinger	16 $\frac{1}{2}$	855
Kidder	135 $\frac{3}{8}$	350
LaMoure	251 $\frac{1}{2}$	259
Logan	10	95
McHenry	20 $\frac{1}{8}$	1,327
McIntosh .....	.....	.....
McKenzie	108 $\frac{1}{2}$	2,071
McLean	10	495
Mercer	4	56
Morton	14	2,100
Mountrail	9 $\frac{1}{2}$	752 $\frac{1}{2}$
Nelson	3	320
Oliver	8 $\frac{1}{2}$	473
Pembina	18	6,682
Pierce	3 $\frac{1}{4}$	100
Ramsey	17	2,152
Ransom	1 $\frac{1}{4}$	660
Richland	7	121
Rolette	47 $\frac{1}{4}$	8,618
Sargent	150	420
Sheridan	1	305
Stark	22	1,100
Steele	3	930
Stutsman	17	999
Towner	127 $\frac{1}{2}$	1,625
Traill	6	1,965
Walsh	7 $\frac{1}{2}$	2,313
Ward	75	2,558
Wells	16	1,927
Williams	252	3,599
Totals	2,890 $\frac{1}{2}$	83,683 $\frac{1}{2}$

MILLET AND HUNGARIAN, 1908.

COUNTY.	Acres sown	Tons cut.
Adams	94	46
Barnes	5,372	7,785
Benson	2,046	2,659
Billings	200	500
Bottineau	708	887
Bowman	20	14
Burleigh	34	43
Cass	2,751	4,181
Cavaller	27	40
Dickey	490	1,381
Dunn	29	19
Eddy	1,841	3,135
Emmons	26½	36
Foster	1,781	2,470
Grand Forks	6,488	5,428
Griggs	2,060	2,783
Hettinger	60	84
Kidder	17	27
LaMoure	1,448	1,564
Logan	10	15
McHenry	753½	1,180
McIntosh .....	.....	.....
McKenzie	37	36½
McLean	93	25
Mercer	102	139
Morton	1,677	1,515
Mountrail	31½	36½
Nelson	582	385
Oliver	83	77
Pembina	1,508	1,510
Pierce	205	296
Ramsey	1,619	932
Ransom	1,350	1,705
Richland	1,356	1,492
Rolette	120½	146
Sargent	1,335	798
Sheridan	215	309
Stark	570	1,650
Steele	4,281	4,836
Stutsman	1,684	2,134
Towner	668	769
Traill	5,859	5,614
Walsh	9,327	7,379
Ward	691	1,395
Wells	2,591	6,065
Williams	3,667	70
Totals	65,907½	73,591

BROME GRASS, 1908.

COUNTY.	Acres sown	Tons cut.
Adams	4	2
Barnes	2,770	1,854
Benson	732	516
Billings	53	78
Bottineau	839	552
Bowman .....	.....	.....
Burleigh	218	153
Cass	1,057	2,549
Cavalier	306	175
Dickey	304	298
Dunn	225	181
Eddy	1,916	907
Emmons	258	204
Foster	303½	514½
Grand Forks	1,104	1,162
Griggs	1,420	991
Hettinger	44½	33
Kidder	414	175
LaMoure	2,060	1,280
Logan	31	25
McHenry	1,387¾	484
McIntosh .....	.....	.....
McKenzie	1	2
McLean	314	151
Mercer	11	11
Mountrail	55	23
Morton	236	178
Nelson	619	454
Oliver	29	28
Pembina	627	607
Pierce	448	157
Ramsey	808	216
Ransom	583	416
Richland	378	303
Rolette	372¾	184
Sargent	122	94
Sheridan	41	19
Stark	450	1,150
Steele	777	827
Stutsman	1,703	1,038
Towner	943	262
Traill	575	515
Walsh	1,426	1,106
Ward	955	975
Wells	1,885	2,968
Williams	134	70
Totals	28,939½	23,887½

OTHER TAME GRASSES, 1908.

COUNTY.	Acres sown	Tons cut.
Adams	19	8
Barney	1,905	2,306
Benson	324	1,336
Billings	354	491
Bottineau	2,150	2,088
Bowman .....	.....	1
Burleigh	414	218
Cass	27,250	25,490
Cavalier	1,176	478
Dickey	1,266	1,141
Dunn	86	75
Eddy	738	1,878
Emmons	58	252
Foster	303	370½
Grand Forks	17,709	13,551
Griggs	1,644	1,452
Hettinger	56	77
Kidder	470	205
LaMoure	1,787	1,764
Logan .....	.....	.....
McHenry	1,156	726
McIntosh .....	.....	.....
McKenzie	137	2,225
McLean	168	28
Mercer	435	11
Morton	728	2,574
Mountrail	145	86
Nelson	810	1,809
Oliver	152	16
Pembina	12,726	10,878
Pierce	58	2,268
Ramsey	346	275
Ransom	3,545	4,041
Richland	7,574	11,242
Rolette	203½	310
Sargent	2,684	2,297
Sheridan	17	17
Stark	760	2,110
Steele	1,542	2,108
Stutsman	698	702
Towner	205	136
Traill	21,712	20,855
Walsh	9,789	8,510
Ward	2,790	2,192
Wells	1,558	2,669
Williams	463	609
Totals	128,110½	131,875½

PRAIRIE HAY, 1908.

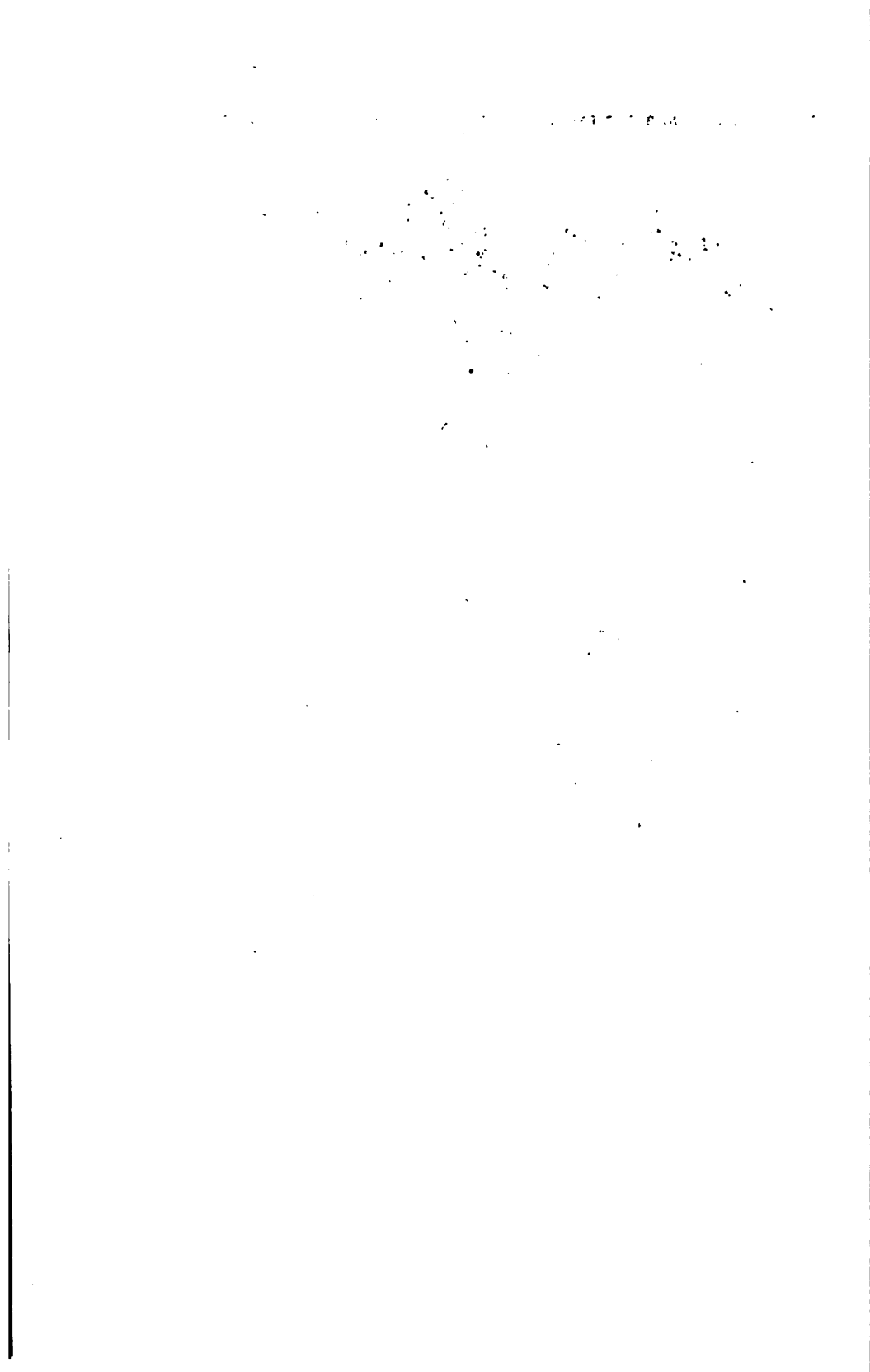
COUNTY.	Tons cut.
Adams	17,468
Barnes	50,945
Benson	31,275
Billings	14,597
Bottineau	34,082
Bowman	1,746
Burleigh	54,932
Cass	29,104
Cavalier	46,449
Dickey	72,978
Dunn	25,848
Eddy	16,098
Emmons	62,236
Foster	12,833
Grand Forks	46,439
Griggs	22,533
Hettinger	27,016
Kidder	48,076
LaMoure	58,612
Logan . . . . .	.....
McHenry	59,594
McIntosh	44,693
McKenzie	19,030
McLean	45,365
Mercer	17,940
Morton	70,731
Mountrail	15,915
Nelson	123,652
Oliver	28,542
Pembina	21,043
Pierce	21,531
Ramsey	45,239
Ransom	39,192
Richland	41,757
Rolette	39,577
Sargent	49,646
Sheridan	40,000
Stark	29,000
Steele	21,812
Stutsman	60,826
Towner	30,244
Trall	11,385
Walsh	32,162
Ward	58,566
Wells	19,966
Williams	29,399
Total	1,690,074

ACREAGE LOST BY HAIL, 1908.

County	Total loss	$\frac{3}{4}$ Loss	$\frac{1}{2}$ Loss	$\frac{1}{4}$ Loss
Adams	1,212	622	473	636
Barnes	370	150	150	248
Benson	310	.....	.....	.....
Billings	126	257	376	378
Bottineau	1,515	735	764	792
Bowman	10	.....	.....	.....
Burleigh	3,618	1,866	1,451	1,937
Cass	234	20	123	628
Cavaller	95	645	365	.....
Dickey	2,572	2,298	2,048	2,507
Dunn	2	25	.....	.....
Eddy	160	203 $\frac{1}{2}$	1,020	2,090
Emmons	10,348	5,225	6,293	2,401
Foster	330	.....	480	1,940
Grand Forks	25	.....	25	502
Griggs .....	.....	.....	.....	.....
Hettinger	1,547	861	804	997
Kidder	726	963	928	391
LaMoure	7,134	2,207	1,482	2,190
Logan .....	.....	256	.....	300
McHenry	83	.....	40	557
McIntosh	300	560	100	.....
McKenzie	706	924	958	998
McLean	15,125	8,716	3,769	2,849
Mercer	11	30	14	.....
Morton	2,435	1,682	2,572	1,372
Mountrail	13,370	6,820	5,292	5,662
Nelson .....	.....	30	.....	95
Oliver	2,696	694	686	490
Pembina	1,565	2,360	1,395	2,315
Pierce .....	.....	.....	.....	.....
Ramsey	285	200	538	940
Ransom	25	.....	.....	.....
Richland	2,784	275	270	120
Rolette .....	.....	.....	.....	401
Sargent .....	.....	.....	.....	.....
Sheridan	1,981	155	460	740
Stark	250	.....	.....	.....
Steele	173	25	780	600
Stutsman	3,217	3,515	2,125	1,183
Towner .....	.....	200	50	580
Traill	50	.....	25	25
Walsh	398	230	1,287	1,531
Ward	980	16,938	3,906	25,393
Wells .....	.....	.....	.....	.....
Williams	10,993	3,875	2,707	1,833
Totals	87,055	63,562	43,756	65,621



Samples of North Dakota's 1910 Corn Crop.



ACREAGE FOR 1909.

County	Wheat	Oats	Barley	Flax	Rye
Adams	22,346	16,775	3,276	11,324	27
Barnes	300,132	76,181	56,645	33,782	1,037
Benson	219,498	45,808	36,254	13,243	761
Billings	23,314	21,657	2,125	15,096	117
Bottineau	326,000	81,000	28,000	20,000	790
Bowman	6,640	8,537	1,279	4,434	11
Burleigh	64,571	19,045	3,765	21,786	2,479
Cass	352,389	86,548	73,449	27,549	8,698
Cavaller	208,392	84,214	54,451	1,783	186
Dickey	105,960	27,897	42,805	37,974	27
Dunn	24,974	13,476	1,473	4,853	14
Eddy	84,869	27,073	13,526	11,236	3,989
Emmons	89,653	12,471	11,230	18,381	394
Foster	113,614	37,211	30,863	8,592	3,101
Grand Forks ..	288,497	80,568	70,960	21,369	2,062
Griggs	156,096	41,346	31,980	18,650	3,647
Hettinger	55,955	22,089	1,392	9,188	60
Kidder	35,180	14,716	6,005½	24,170	4,288
LaMoure	263,329	39,173	46,788	38,242	543
Logan	66,289	10,120	10,132	28,548	533
McHenry	251,292	65,037	20,361	16,593	1,852
McIntosh	75,407	5,299	12,481	24,204	179
McKenzie	23,554½	18,897½	1,037	10,242	23½
McLean	128,038	35,347	6,462	47,754	183
Mercer	42,088	11,489	1,663	8,966	72
Morton	121,274	40,022	4,140	25,867	308
Mountrail	65,746	24,614	1,934	17,973	221
Nelson	192,662	45,765	41,447	15,857	668
Oliver	36,498	15,836	1,245½	3,400	29
Pembina	175,622	64,524	87,348	13,939	2,055
Pierce	172,111	36,775	3,711	10,918	285
Ramsey	243,938	48,898	43,321	14,026	1,368
Ransom	156,476	38,348	18,762	16,493	253
Richland	177,573	64,466	45,159	20,300	3,808
Rolette	107,145	33,689	29,510	6,639	145
Sargent	95,550	24,860	22,055	18,214	315
Sheridan	100,276	24,462	5,190	12,401	504
Stark	164,922	48,307	2,200	15,500	2,700
Steele	166,521	39,727	34,127	18,358	520
Stutsman	234,576	68,677	42,513	59,234	1,020
Towner	212,114	59,758	49,032	16,867	235
Trall	169,919	40,150	35,355	9,155	2,374
Walsh	254,992	67,070	68,266	15,298	478
Ward	402,332	93,025	12,505	36,567	250
Wells	164,010	43,397	27,466	12,210	5,215
Williams	130,267	42,720	3,571	13,104	325
Totals ...	6,872,601½	1,867,069½	1,157,260	850,269	58,149½

ACREAGE FOR 1909—Continued.

County	Speltz	Corn	Potatoes	Roots of all kinds	Hay - Mil & Hun	Brome Grass
Adams	1,141	4,241	800	121	293	36
Barnes	1,064	6,226	1,515	46	6,471	630
Benson	756	600	802	201	2,312½	647
Billings	1,116	1,376	576	42	143	167
Bottineau	630	1,250	1,000	.....	1,100	930
Bowman	233	527	199½	7%	5	7
Burleigh	4,839	6,166	1,114	90	97	307
Cass	567	36,514	7,669	5%	3,552	557
Cavaller	318	234	867	54	53	285
Dickey	8,485	5,901	687	3	1,093	187
Dunn	204	750	381	99	97	17
Eddy	1,329	264	446	13½	1,886	1,253
Emmons	5,971½	5,971½	543¼	¼	57	206
Foster	2,828	839½	771¼	9½	1,975	730
Grand Forks ...	730	7,987	5,416	93	6,149	621
Griggs	765	453	518½	5%	2,719	951
Hettinger	984	1,929	572	24	156	.....
Kidder	2,530½	1,482½	594	11½	139	575
LaMoure	5,287	3,255	813	%	2,728½	1,054½
Logan	6,632	388	414	.....	24	33
McHenry	2,016	1,330½	1,082%	58	1,303	679
McIntosh	8,582	549	405	.....	.....	.....
McKenzie	166	956½	430¼	37¼	82	36
McLean	1,545	1,842	916	74	127	89
Mercer	1,033	1,017	154	1	90	27
Morton	1,764	6,047	1,452	81	1,400	44
Mountrail	398	229	517½	30	164¼	64
Nelson	687	986	1,223	5	809	468
Oliver	371	1,702	413¼	2%	480	1
Pembina	15	3,125	1,020	50	1,943	156
Pierce	437	393	655¼	1	366	235
Ramsey	1,312	1,546	1,086	326	1,613	572
Ransom	2,537	7,003	667½	35¼	1,842	140
Richland	1,062	20,227	1,505	6	1,670	100
Rolette	210	101½	725½	140½	83	60
Sargent	6,326	6,488	676¼	6	1,360	140
Sheridan	643	128	460	.....	395	90
Stark .....	.....	2,900	1,600	47	900	650
Steele	230	2,775	538½	11%	4,443½	383
Stutsman	5,091	2,489	1,256	31	2,642	1,580
Towner	1,789	443½	869¼	10%	1,024	1,835
Traill	98	10,453	797	106	5,632	428
Walsh	104	3,351	2,328	11½	9,290	976
Ward	2,347	4,066	2,002	378	16,776	1,116
Wells	1,220	1,153	539¼	52½	3,120	924
Williams	1,707	797	1,079	89	339	186
Totals	88,099	168,452½	50,126%	2,419	88,943%	20,172¼

ACREAGE FOR 1909—Continued.

County	Other Tame Grasses	Total acre- age of crop sown to tame grasses
Adams	247	60,627
Barnes	3,690	487,419
Benson	651	321,531
Billings	99	65,828
Bottineau	4,000	464,700
Bowman	15½	21,895¾
Burleigh	419	124,708
Cass	32,916	630,413¾
Cavalier	2,183	353,020
Dickey	1,686	232,705
Dunn . . . . .	.....	46,338
Eddy	1,354	232,107
Emmons . . . . .	.....	127,550
Foster	916	201,450¼
Grand Forks	20,010	504,462
Griggs	2,042	259,173¼
Hettinger	272	92,621
Kidder	177	89,876
LaMoure	4,590	405,803¾
Logan . . . . .	.....	123,113
McHenry	1,584	363,187
McIntosh	19	127,125
McKenzie	306	55,766
McLean	296	222,673
Mercer . . . . .	.....	66,590
Morton	383	202,782
Mountrail	292	112,182¾
Nelson . . . . .	.....	300,577
Oliver	48	60,026
Pembina	18,083	367,880
Pierce	98½	225,985¾
Ramsey	1,655	359,661
Ransom	6,018	248,574¾
Richland	11,941	347,817
Rolette	174½	260,397
Sargent	3,770	179,760¼
Sheridan	16	144,565
Stark	1,790	241,516
Steele	3,370	271,004¾
Stutsman	972	419,181
Towner	1,325	345,301½
Traill	18,920	293,387
Walsh	13,809	435,973½
Ward	4,268	275,635
Wells	1,367	260,673¾
Williams	993	195,182
Totals	166,765½	11,228,738¾

VALUE OF GARDEN PRODUCE SOLD, 1908.

COUNTY.	Value.
Adams	\$ 1,413.95
Barnes	4,109.00
Benson	3,078.20
Billings	175.00
Bottineau	1,500.00
Bowman	660.00
Burleigh	3,398.00
Cass	1,280.00
Cavalier	2,466.00
Dickey	3,705.00
Dunn	336.00
Eddy	1,938.00
Emmons	1,335.00
Foster	1,773.00
Grand Forks	2,183.00
Griggs	392.00
Hettinger	1,074.00
Kidder	739.00
LaMoure	2,114.96
Logan	259.00
McHenry	7,495.00
McIntosh	40.00
McKenzie	946.50
McLean	8,400.00
Mercer	1,510.00
Morton	6,238.00
Mountrail	985.00
Nelson	2,002.00
Oliver	1,433.00
Pembina	2,467.00
Pierce	1,154.00
Ramsey	5,689.00
Ransom	400.00
Richland	1,449.00
Rolette	4,662.00
Sargent	967.00
Sheridan	2,502.00
Stark	6,270.00
Steele	1,118.00
Stutsman	5,141.00
Towner	711.70
Traill	871.00
Walsh	5,224.00
Ward	9,103.85
Wells	3,029.00
Williams	3,185.00
Total	\$ 116,991.20

VALUE OF POULTRY AND EGGS SOLD, 1908.

COUNTY.	Value.
Adams	\$ 3,606.50
Barnes	21,246.00
Benson	12,562.54
Billings	1,135.00
Bottineau	8,000.00
Bowman	644.00
Burleigh	12,201.00
Cass	35,917.00
Cavaller	14,217.00
Dickey	12,053.00
Dunn	3,432.00
Eddy	6,547.80
Emmons	12,244.00
Foster	6,688.40
Grand Forks	26,737.00
Griggs	8,720.00
Hettinger	3,066.00
Kidder	2,631.00
LaMoure	13,316.50
Logan	5,242.00
McHenry	16,744.00
McIntosh	1,385.00
McKenzie	1,618.00
McLean	14,680.00
Mercer	5,283.00
Morton	15,863.00
Mountrail	4,725.00
Nelson	13,244.00
Oliver	7,588.00
Pembina	34,030.00
Pierce	1,505.00
Ramsey	17,936.00
Ransom	17,845.00
Richland	39,010.00
Rolette	11,261.00
Sargent	19,259.00
Sheridan	9,968.00
Stark	5,765.00
Steele	10,295.75
Stutsman	9,553.00
Towner	13,367.00
Trall	20,065.00
Walsh	22,605.00
Ward	30,635.14
Wells	11,775.55
Williams	17,194.00
Total	\$ 583,405.63

DAIRY PRODUCTS, 1908.

COUNTY	Lbs. cheese made in families	Lbs. butter made in families	Value of milk sold other than to cheese fac- tories and creameries	Value of milk sold to cheese fac- tories and creameries or made into butter
Adams		46,000	\$ 1,320.25	\$.....
Barnes	429	323,154	4,760.00	12,095.00
Benson	110	176,527	2,630.00	880.00
Billings	500	12,998	5,200.00	3,750.00
Bottineau		277,000	.....	.....
Bowman		6,005	70.00	.....
Burleigh	955	98,660	6,491.00	3,280.00
Cass		475,800	24,494.50	6,900.00
Cavalier	12,880	78,511	1,176.50	1,691.00
Dickey		120,588	3,830.00	19,160.00
Dunn		55,732	100.00	100.00
Eddy	50	93,175	1,340.00	855.00
Emmons	660	117,815	97.00	6,289.00
Foster		66,922	470.00	40.00
Grand Forks		445,438	11,288.00	4,139.00
Griggs		227,037	1,264.00	40.00
Hettinger		58,222	.....	.....
Kidder	378	59,971	588.00	123,731.00
LaMoure	375	200,800	5,682.00	4,043.00
Logan	3,185	54,482	600.00	15,204.00
McHenry	610	241,581	4,239.00	1,130.00
McIntosh	200	21,470	4,594.00	.....
McKenzie	185	35,125	10.00	.....
McLean	555	211,199	880.00	60.00
Mercer	50	48,535	.....	.....
Morton	150	243,921	15,517.00	162,288.00
Mountrail	1,440	103,717	410.00	75.00
Nelson	990	343,891	52.30	.....
Oliver	250	116,919	420.00	16,439.00
Pembina	1,000	340,410	2,711.00	22,936.00
Pierce		89,190	366.00	.....
Ramsey	300	234,996	9,277.00	4,455.00
Ransom		237,809	670.00	8,206.00
Richland	1,650	149,099	1,644.00	10,734.00
Rolette	6,785	205,623	166.00	14.60
Sargent	9,725	136,239	6,220.00	24,743.00
Sheridan		96,221	100.00	155.00
Stark	1,270	122,750	4,750.00	.....
Steele	60	219,161	475.00	1,885.00
Stutsman	445	118,163	11,590.00	55,856.00
Towner	9,120	214,125	561.00	492.00
Trall	2,625	249,759	669.00	17,341.00
Walsh	600	421,471	6,478.00	580.00
Ward	1,295	222,607	12,341.00	5,920.00
Wells		189,302	2,225.00	2,225.00
Williams		106,204	5,383.00	.....
Totals	58,827	7,714,324	\$153,199.55	\$537,731.60

DAIRY PRODUCTS, 1908—Continued.

County	Lbs. milk sold to cheese factories	Lbs. milk sold to creameries	Lbs. cream sold to creameries	Cows used for dairying 1908
Adams				1,061
Barnes	975	4,556	61,607	4,757
Benson		12,110	20,010	2,733
Billings		43,000	10,000	565
Bottineau				4,000
Bowman				500
Burleigh		275	95,974	2,663
Cass	1,500	1,710	176,818	5,902
Cavalier			10,437	3,733
Dickey		2,800	211,920	3,508
Dunn			600	1,214
Eddy		26,000		1,599
Emmons		200	283,002	4,169
Foster			2,600	1,164
Grand Forks	500	11,777	192,932	5,453
Griggs			1,400	2,221
Hettinger		5,200		1,612
Kidder		8,150	486,773	3,195
LaMoure		950	157,850	3,602
Logan		6,800	717,170	4,026
McHenry	150	1,150	12,945	3,727
McIntosh			824,500	4,594
McKenzie				881
McLean			4,948	2,859
Mercer				1,372
Morton	586,991	3,496,744	158,231	6,180
Mountrail	355		2,125	1,578
Nelson			8,450	3,453
Oliver		1,285,797	107,928	2,363
Pembina		5,800	86,600	3,295
Pierce			500	1,533
Ramsey			30,040	3,349
Ransom		5,500	133,062	3,703
Richland			381,145	5,253
Rolette		3,645		2,459
Sargent			423,246	4,759
Sheridan			1,000	3,536
Stark		56,700		1,270
Steele		1,300	36,785	3,720
Stutsman	1,863		128,097	4,691
Towner		2,400	15,986	2,485
Traill		12,719	180,634	5,661
Walsh	1,100	2,100	23,855	4,773
Ward	950	81,596	31,751	5,208
Wells			15,920	3,245
Williams	200	76	700	2,160
Totals	594,584	5,059,055	5,037,541	145,739

SHEEP AND WOOL, 1908.

County	No. Sheep Sheared	Lbs. Wool Clipped
Adams	5,372	29,657
Barnes	981	4,977
Benson	194	1,204
Billings	46,882	328,174
Bottineau	260	1,360
Bowman	24,400	166,400
Burleigh	7,910	18,726
Cass	2,460	20,111
Cavaller	109	616
Dickey	550	4,294
Dunn	16,500	90,924
Eddy	497	3,481
Emmons	4,073	21,999
Foster	899	5,151
Grand Forks	1,432	10,486
Griggs	3,292	9,662
Hettinger	10,078	61,106
Kidder	4,605	30,491
LaMoure	463	3,521
Logan	2,289	12,486
McHenry	1,115	3,596
McIntosh	3,991	27,937
McKenzie	1,068	8,487
McLean	1,115	1,221
Mercer	9,263	13,599
Morton	15,444	75,581
Mountrail	134	1,154
Nelson	613	4,055
Oliver	837	6,438
Pembina	4,133	30,419
Pierce	183	1,000
Ramsey	1,029	7,134
Ransom	527	3,171
Richland	1,229	8,283
Rolette	920	2,751
Sargent	960	7,495
Sheridan	438	764
Stark	19,952	121,000
Steele	321	2,301
Stutsman	4,034	24,120
Towner	218	1,878
Traill	2,180	15,235
Walsh	228	1,662
Ward	270	1,810
Wells	5,210	9,685½
Williams	1,066	4,541
Totals	209,724	1,210,143

ORCHARDS AND FRUITS, 1908.

County	Trees in Bearing	Trees not bearing	Acres of Berries	Value of Fruit Sold	Acres Artificial forests
Adams	5	861	1	\$ 12.10	67
Barnes	372	4,132	146	65.00	987
Benson	184	1,508	141	5.00	936
Billings	20	120	10	50.00	25
Bottineau	800	748	.....	.....	1,240
Bowman .....	.....	50	.....	.....	5%
Burleigh	48	2,858	21	.....	308
Cass	740	3,458	109	50.00	1,232
Cavalier	200	445	11	23.00	733
Dickey	860	1,977	224	45.00	335
Dunn	68	.....	$\frac{1}{4}$	.....	13%
Eddy	110	452	$6\frac{1}{8}$	140.00	$4,082\frac{1}{4}$
Emmons	172	157	$\frac{1}{4}$	.....	$47\frac{1}{4}$
Foster	3	745	$37\frac{1}{2}$	41.00	$519\frac{1}{2}$
Grand Forks	405	2,904	9	195.25	2,513
Griggs	503	976	81	.....	375
Hettinger	28	186	10	.....	$40\frac{1}{2}$
Kidder	350	600	8	.....	85
LaMoure	512	6,503	$150\frac{1}{4}$	.....	2,742
Logan	228	809	4	.....	64
McHenry	271	1,937	3,226	140.00	1,346
McIntosh	220	489	10	.....	.....
McKenzie	3	212	38	6.00	$9,938\frac{1}{2}$
McLean	9	293	$2\frac{1}{2}$	.....	371
Mercer .....	.....	2,273	.....	.....	5
Morton	1,222	2,944	10	62.00	812
Mountrail	64	539	$145\frac{3}{4}$	.....	$125\frac{1}{2}$
Nelson	557	828	$40\frac{1}{2}$	.....	1,039
Oliver .....	.....	1,536	$3\frac{3}{4}$	.....	$34\frac{1}{4}$
Pembina	38	347	6	10.00	179
Pierce	1,665	220	$\frac{1}{4}$	.....	$651\frac{1}{4}$
Ramsey	57	1,962	18	15.00	1,005
Ransom	680	4,776	$130\frac{1}{4}$	12.50	$51,574\frac{1}{2}$
Richland	3,257	6,677	8	120.00	1,488
Rolette	50	492	$28\frac{3}{4}$	5.00	$569\frac{3}{4}$
Sargent	2,709	6,565	$130\frac{1}{2}$	25.00	930
Sheridan .....	.....	828	.....	.....	162
Stark	157	650	57	127.50	170
Steele	186	3,373	$120\frac{1}{2}$	52.50	$860\frac{3}{4}$
Stutsman	124	2,074	45	210.00	2,453
Towner	186	893	$6\frac{3}{8}$	.....	$812\frac{1}{2}$
Trails	5,016	5,771	14	488.00	1,160
Walsh	1,157	3,364	492	81.00	2,118
Ward	270	2,050	181	38.00	1,093
Wells	147	4,323	$13\frac{1}{2}$	.....	$1,000\frac{1}{2}$
Williams	171	951	111	.....	13,407
Totals	23,824	111,056	$5,807\frac{7}{8}$	\$2,018.85	$109,654\frac{5}{8}$

LIVE STOCK.

County	Horses	Mules	Cattle	Sheep	Hogs
Adams	3,577	103	3,526	6,382	564
Barnes	14,847	78	14,822	948	6,045
Benson	10,024	110	7,884	499	3,087
Billings	12,399	97	22,675	54,154	1,036
Bottineau	14,700	256	10,630	500	3,750
Bowman	4,808	74	5,554	32,819	137
Burleigh	8,438	84	14,998	4,967	1,000
Cass	18,238	186	16,457	4,858	9,374
Cavalier	13,483	131	11,273	1,013	4,441
Dickey	9,007	211	15,335	1,537	6,229
Dunn	5,173	7	9,276	12,675	1,898
Eddy	4,805	131	4,181	600	886
Emmons	10,744	67	18,610	3,663	2,872
Foster	5,637	158	4,021	2,068	2,076
Grand Forks	14,202	401	14,347	2,425	5,992
Griggs	9,391	69	6,468	2,336	2,945
Hettinger	5,429	48	4,974	11,284	2,094
Kidder	6,253	47	10,115	4,943	405
LaMoure	10,091	204	10,277	598	1,821
Logan	5,862	16	13,171	1,933	1,826
McHenry	12,918	207	12,472	909	4,731
McIntosh	7,000	28	14,154	3,991	2,944
McKenzie	4,912	33	7,491	6,975	1,071
McLean	8,835	158	8,581	713	1,983
Mercer	5,070	9	8,144	6,034	1,696
Morton	15,672	113	24,737	18,453	5,968
Mountrail	5,712	82	12,948	185	1,012
Nelson	10,531	286	10,635	1,401	3,298
Oliver	5,117	43	8,363	1,559	2,151
Pembina	10,981	70	10,033	5,463	2,520
Pierce	9,390	79	6,400	176	2,720
Ramsey	11,827	189	8,944	1,602	3,320
Ransom	7,921	96	13,186	816	11,000
Richland	14,264	224	19,317	2,098	5,297
Rolette	7,314	120	7,236	1,323	2,658
Sargent	7,568	101	17,562	1,619	7,490
Sheridan	7,490	41	6,098	438	1,843
Stark	7,279	.....	9,564	10,310	2,092
Steele	7,887	119	7,088	542	2,960
Stutsman	13,382	175	13,005	3,918	1,946
Towner	11,118	483	6,874	723	4,954
Traill	9,564	488	9,518	3,066	3,882
Walsh	19,644	153	13,665	1,179	5,985
Ward	17,306	350	13,976	427	5,636
Wells	10,756	160	8,339	1,284	2,075
Williams	8,274	782	7,581	1,514	2,035
Totals	444,840	7,067	504,455	226,920	151,813

LIVE STOCK, 1909.—Continued.

County	Value of animals fattened and killed for home use 1908	Value of cattle and hogs and sheep sold for market 1908	Value of horses sold for market 1908	Value of all stock brought into state 1908
Adams	\$ 5,062.00	\$ 14,134.65	\$ 22,283.00	\$ 34,803.00
Barnes	69,417.00	120,219.00	47,746.00	12,453.00
Benson	47,776.00	47,802.19	33,043.00	13,582.00
Billings	10,208.00	222,974.00	48,856.00	17,252.00
Bottineau	40,000.00	46,800.00	.....	.....
Bowman	1,520.00	3,654.00	662.00	4,000.00
Burleigh	26,610.00	117,763.00	35,918.00	7,535.00
Cass	103,915.00	155,316.00	53,070.00	6,430.00
Cavalier	74,329.00	45,152.00	20,039.00	6,180.00
Dickey	27,584.00	184,923.00	75,217.00	12,850.00
Dunn	20,196.00	116,830.00	50,034.00	14,096.00
Eddy	21,448.80	42,426.00	19,182.00	3,317.00
Emmons	21,858.00	131,958.00	18,552.00	750.00
Foster	23,452.00	49,529.00	30,663.50	7,269.00
Grand Forks ..	87,993.00	114,132.00	33,422.00	10,590.00
Griggs	37,382.00	50,242.00	76,893.00	41,429.00
Hettinger	24,567.00	52,002.00	18,177.00	9,240.00
Kidder	15,782.00	136,357.00	43,646.00	11,890.00
LaMoure	51,384.00	110,118.00	38,199.00	166,905.00
Logan	25,127.00	92,803.00	17,305.00	2,850.00
McHenry	57,588.00	108,629.00	37,027.00	6,160.00
McIntosh	31,810.00	80,953.00	3,025.00	.....
McKenzie	13,461.00	76,253.00	23,010.00	12,515.00
McLean	31,995.00	26,591.00	15,729.00	3,119.00
Mercer	31,778.00	57,034.00	10,683.00	.....
Morton	74,912.00	129,447.00	64,322.00	5,298.00
Mountrail	14,183.00	16,915.00	23,319.00	6,145.00
Nelson	55,282.00	64,660.00	14,703.00	9,030.00
Oliver	22,267.00	45,081.00	9,610.00	1,840.00
Pembina	78,797.00	54,587.00	12,552.00	3,390.00
Pierce	25,611.00	13,868.00	4,088.00	1,700.00
Ramsey	52,877.00	59,516.00	49,115.00	2,267.00
Ransom	42,916.00	118,320.00	29,225.00	9,568.00
Richland	66,259.00	142,929.00	33,687.00	3,254.00
Rolette	363.37	387.44	359.00	199.20
Sargent	35,830.00	176,099.00	25,279.00	6,640.00
Sheridan	30,000.00	10,792.00	14,666.00	6,416.00
Stark	42,750.00	120,755.00	35,000.00	45,000.00
Steele	47,137.00	46,934.00	18,395.00	10,645.00
Stutsman	63,099.00	83,882.00	53,573.00	34,212.00
Towner	59,983.00	51,089.00	38,872.00	375.00
Traill	58,644.00	70,623.00	13,844.00	13,229.00
Walsh	86,022.00	51,709.00	26,553.00	24,938.00
Ward	68,647.00	59,893.00	52,320.00	8,345.00
Wells	49,543.90	57,812.00	48,767.00	17,258.00
Williams	22,356.00	25,332.00	29,803.00	18,312.00
Totals	\$1,870,012.07	\$3,604,225.28	\$1,370,433.50	\$ 633,616.20

COAL MINES, 1908.

County	No. Mines operated in 1908	No. of tons mined in 1908	Average cost per ton to mine coal 1908	Total wages paid coal miners 1908	No. of men employed
Adams	6	3,818	\$ 2.05	\$ 2,066.00	83
Barnes . . . . .	..	..	..	..	..
Benson . . . . .	..	..	..	..	..
Billings . . . . .	..	..	..	..	..
Bottineau . . . . .	..	..	..	..	..
Bowman	1	40	1.25	60.00	2
Burleigh	10	119,550	88	105,239.00	214
Cass . . . . .	..	..	..	..	..
Cavalier . . . . .	..	..	..	..	..
Dickey . . . . .	..	..	..	..	..
Dunn	2	4,592	11	250.00	5
Eddy . . . . .	..	..	..	..	..
Emmons	1	..	..	..	..
Foster . . . . .	..	..	..	..	..
Grand Forks . . . . .	..	..	..	..	..
Griggs . . . . .	..	..	..	..	..
Hettinger	10	2,831	1.00	1,445.00	17
Kidder . . . . .	..	..	..	..	..
LaMoure . . . . .	..	..	..	..	..
Logan . . . . .	..	..	..	..	..
McHenry . . . . .	..	..	..	..	..
McIntosh . . . . .	..	..	..	..	..
McKenzie	3	1,185	1.12	133.00	8
McLean	5	13,100	1.15	4,900.00	36
Mercer . . . . .	..	4,616	..	..	..
Morton	5	13,126	1.00	6,442.00	25
Mountrail	6	5,350	1.12	950.00	22
Nelson . . . . .	..	..	..	..	..
Oliver	5	2,188	81	175.00	6
Pembina . . . . .	..	..	..	..	..
Pierce . . . . .	..	..	..	..	..
Ramsey . . . . .	..	..	..	..	..
Ransom . . . . .	..	..	..	..	..
Richland . . . . .	..	..	..	..	..
Rolette . . . . .	..	..	..	..	..
Sargent . . . . .	..	..	..	..	..
Sheridan	1	2,000	1.00	200.00	1
Stark	2	51,000	90	42,000.00	100
Steele . . . . .	..	..	..	..	..
Stutsman . . . . .	..	..	..	..	..
Towner . . . . .	..	..	..	..	..
Trall . . . . .	..	..	..	..	..
Walsh . . . . .	..	..	..	..	..
Ward	19	45,924	1.80	47,601.00	163
Wells . . . . .	..	..	..	..	..
Williams	12	20,115	1.05	3,140.00	63
Totals	88	289,435	..	\$214,651.00	746

VITAL STATISTICS.

County	No. of males living on farms	No. of fe- males living on farms	No. of Births	No of Deaths
Adams	2,213	1,611	116	18
Barnes	4,987	3,661	212	55
Benson	3,384	3,507	207	40
Billings	1,862	1,400	100	26
Bottineau	4,220	3,890	235	42
Bowman	652	471	16	10
Burleigh	2,659	2,183	83	14
Cass	5,912	4,417	147	37
Cavalier	4,615	3,754	169	46
Dickey	2,768	2,176	76	25
Dunn	1,701	1,287	59	20
Eddy	1,385	1,014	45	7
Emmons	2,697	2,401	80	17
Foster	1,542	1,062	37	9
Grand Forks	5,828	4,490	181	62
Griggs	2,286	1,600	96	25
Hettinger	2,356	1,950	124	27
Kidder	1,951	1,598	133	8
LaMoure	3,476	2,780	149	34
Logan	2,529	2,357	206	24
McHenry	4,429	3,643	240	31
McIntosh	2,406	2,010	143	48
McKenzie	1,827	1,283	83	19
McLean	3,535	2,997	161	40
Mercer	1,382	1,002	110	27
Morton	5,164	4,486	307	46
Mountrail	2,859	2,140	158	27
Nelson	3,355	2,573	138	31
Oliver	1,622	1,352	88	14
Pembina	4,039	3,338	110	59
Pierce	2,503	2,062	152	34
Ramsey	3,529	2,638	118	39
Ransom	2,915	2,299	106	31
Richland	4,513	3,644	189	41
Rolette	2,612	1,941	135	32
Sargent	2,754	2,161	70	37
Sheridan	2,124	1,931	183	73
Stark	1,675	1,540	101	21
Steele	2,571	1,944	75	17
Stutsman	4,545	3,527	212	36
Towner	3,044	2,207	135	27
Traill	3,512	2,717	80	29
Walsh	6,467	5,492	217	89
Ward	6,787	5,488	317	79
Wells	2,953	2,441	156	36
Williams	3,679	2,636	192	33
Totals	145,824	117,101	6,447	1,542

FARM LABOR STATISTICS, 1908.

County	No. of males em- ployed	Average wages paid per month	No. of females em- ployed	Average Wages paid per month	Total Wages Paid
Adams	89	\$33.25	12	\$14.00	\$ 18,917.85
Barnes	1,152	30.00	281	16.00	628,085.00
Benson	842	30.00	215	16.00	33,265.00
Billings	147	23.00	17	21.00	44,756.00
Bottineau	1,522	30.00	265	15.00	367,000.00
Bowman	200	25.00	100	18.00	6,800.00
Burleigh	313	29.44	66	18.00	23,838.00
Cass	1,817	32.12	527	20.14	859,690.00
Cavaller	873	32.14	134	15.00	186,056.00
Dickey	482	30.00	53	16.69	131,284.00
Dunn	161	26.89	18	12.31	29,369.00
Eddy	354	18.99	45	13.20	84,842.00
Emmons	135	28.37	57	18.12	28,109.00
Foster	503	30.90	68	16.90	145,346.00
Grand Forks	1,793	33.00	591	17.50	579,948.00
Griggs	748	34.21	180	19.13	360,319.00
Hettinger	145	23.00	26	10.00	29,811.00
Kidder	216	38.00	13	15.00	53,603.00
LaMoure	952	38.00	155	24.00	267,745.00
Logan	201	23.52	63	10.25	27,667.00
McHenry	1,176	28.00	146	18.00	211,589.00
McIntosh	66	26.00	8	15.00	9,512.00
McKenzie	149	35.00	149	12.00	36,917.00
McLean	282	22.00	78	15.00	28,227.00
Mercer	67	21.00	27	11.25	15,512.00
Morton	323	30.00	43	15.00	57,024.00
Mountrail	260	36.82	34	14.75	39,316.00
Nelson	813	30.00	201	16.00	288,906.00
Oliver	52	18.85	8	10.00	9,974.00
Pembina	1,300	33.00	184	13.00	254,460.00
Pierce	409	25.00	40	13.00	105,675.00
Ramsey	1,080	31.50	175	17.00	306,138.00
Ransom	846	32.50	117	12.30	202,329.00
Richland	615	22.26	315	4.62	246,956.00
Rolette	716	32.00	36	24.00	118,344.00
Sargent	579	30.00	147	14.00	207,750.00
Sheridan	175	28.00	898	9.00	43,315.00
Stark	147	35.00	26	9.00	27,605.00
Steele	1,003	26.00	292	15.00	418,789.00
Stutsman	854	24.63	332	20.16	275,362.00
Towner	905	33.00	120	20.00	282,164.00
Traill	1,331	35.00	341	19.00	555,798.00
Walsh	1,253	35.00	158	16.00	330,251.00
Ward	1,302	35.00	219	20.00	372,307.00
Wells	637	25.30	113	18.00	157,033.00
Williams	484	.....	86	.....	70,354.50
totals	29,469	.....	7,179	.....	\$8,606,038.35

RAILROAD LABOR STATISTICS.

Reports made by Steam Railroads for the Year ending June 30, 1909.
EMPLOYEES AND SALARIES—NORTHERN PACIFIC RAILWAY COMPANY.

CLASS	Number June 30	Total number days worked	Total Yearly Compensation	Average Daily Compensation
General officers .....	.....	211	\$ 7,807.99	\$ 37.00
Other officers	4	1,527	17,942.40	11.75
General office clerks	30	13,150	35,682.76	2.71
Station agents	126	46,931	104,580.71	2.23
Other station men	171	62,967	110,209.51	1.75
Enginemen	122	43,131	246,091.02	5.71
Firemen	122	43,131	156,676.61	3.63
Conductors	130	37,610	155,094.69	4.12
Other trainmen	313	94,568	260,252.38	2.75
Machinists	45	13,184	43,382.12	3.29
Carpenters	172	43,116	111,032.18	2.58
Other shopmen	114	35,778	95,873.30	2.68
Section foremen	207	69,484	137,428.15	1.98
Other trackmen	2,122	372,390	545,521.71	1.46
Switch tenders, crossing tenders and watchmen	16	5,952	8,506.40	1.43
Telegraph operators and dispatchers	112	43,450	107,694.91	2.48
Employees—Account floating equipment—All other employees and laborers	454	123,670	238,140.92	1.93
Total (including general officers)	4,260	1,050,249	\$ 2,381,917.76	\$ 2.27
Less general officers		211	7,807.99	37.00
Total (excluding general officers)	4,260	1,050,038	\$ 2,374,109.77	\$ 2.26

RAILROAD LABOR STATISTICS—Continued.
EMPLOYEES AND SALARIES—MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY CO.

CLASS	Number June 30	Total Number Days Worked	Total Yearly Compensation	Average Daily Compensation
General officers	5	2,463	\$ 44,933.73	\$ 18.24
Other officers	10	3,711	32,046.72	8.63
General office clerks	148	44,968	91,525.08	2.04
Station agents	109	34,015	68,988.02	2.03
Other station men	112	39,437	58,439.54	1.48
Enginemen	74	23,479	104,802.41	4.46
Firemen	74	23,479	66,346.58	2.83
Conductors	53	19,862	81,199.35	4.09
Other trainmen	158	51,464	119,176.67	2.32
Machinists	29	9,115	27,536.39	3.02
Carpenters	67	26,919	68,311.75	2.54
Other shopmen	22	7,831	24,049.71	3.07
Section foremen	136	48,711	93,383.05	1.92
Other trackmen	461	121,573	169,368.43	1.40
Switch tenders, crossing tenders and watchmen	6	3,426	5,855.25	1.71
Telegraph operators and dispatchers	51	16,686	43,744.61	2.62
All other employees and laborers	530	102,728	194,586.98	1.89
Total	2,045	579,867	\$ 1,294,794.27	\$ 2.23
Less general officers	5	2,463	44,933.73	18.24
Total (excluding general officers)	2,040	577,404	\$ 1,249,860.54	\$ 2.16



Western North Dakota.

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RAILROAD LABOR STATISTICS—Continued.
EMPLOYEES AND SALARIES—CHICAGO AND NORTHWESTERN RAILWAY CO.

CLASS	Number June 30	Total Number Days Worked	Total Yearly Compensation	Average Daily Compensation
General officers				
Other officers				
General office clerks				
Station agents	2	626	\$ 1,695.31	\$ 2.71
Other station men	3	939	1,343.50	1.43
Engineers			1,657.62	
Firemen			1,027.65	
Conductors				
Other trainmen				
Machinists				
Carpenters				
Other shopmen	5	939	1,855.80	1.98
Section foremen	2	626	1,260.00	2.01
Other trackmen	8	1,878	2,612.70	1.39
Switch tenders, crossing tenders and watchmen				
Telegraph operators and dispatchers	1	313	569.43	1.82
Employees and other laborers		313	164.30	52
Total (including general officers)	21	5,634	\$ 12,186.31	\$ 2.16
Less general officers				
Total (excluding general officers)	21	5,634	\$ 12,186.31	\$ 2.16

RAILROAD LABOR STATISTICS—Continued.
EMPLOYEES AND SALARIES—FARMERS' GRAIN AND SHIPPING COMPANY.

CLASS	Number June 30	Total Number Days Worked	Total Yearly Compensation	Average Daily Compensation
General officers	3	624	\$ 4,500.00	\$ 7.21
Other officers	1	312	1,200.00	3.84
General office clerks	1	312	720.00	2.31
Station agents	6	1,872	4,320.00	2.31
Other station men				
Enginemen	1	333	1,992.20	5.98
Firemen	1	333	1,236.90	3.71
Conductors	1	333	1,722.39	5.71
Other trainmen	2	666	1,955.60	2.93
Machinists				
Carpenters				
Other shopmen				
Section foremen	8	2,496	5,280.00	2.11
Other trackmen	18	6,741	9,235.70	1.37
Switch tenders, crossing tenders and watchmen				
Telegraph operators and dispatchers				
Employees—Account floating equipment				
All other employees and laborers	1	360	675.00	1.88
Total (including general officers)	43	14,882	\$ 32,837.79	\$ 2.29
Less general officers	3	624	4,500.00	7.21
Total (excluding general officers)	40	13,758	\$ 28,337.79	\$ 2.06

ELEVATORS AND WAREHOUSES.

1. REPORT OF GRAIN SHIPMENTS. The owner, agent or operator of every elevator, warehouse or grain station shall make an annual sworn statement and report to the commissioner of agriculture and labor on or before the twentieth day of August in each year. Such report shall show the amount and kind of grain bought and shipped during the preceding year ending July 30.

2. REPORT OF TRACK OR INDEPENDENT BUYERS. Every station agent of every railroad shall report to the commissioner of agriculture and labor annually as provided in the preceding section, the amount of grain shipped by independent or track buyers or by other individuals not the owners or operators of any warehouse or elevator at his station.

3. COMMISSIONER OF AGRICULTURE FURNISHES BLANKS. It shall be the duty of the commissioner of agriculture and labor to furnish all persons required to make the reports provided for in this act with the necessary and appropriate blanks on which to make and return such report.

Approved March 19, 1907.

Under the provisions of the above law you will find I have tabulated all the reports sent to my office and they will follow this letter.

I wish to call your attention to the following: The railway station agents refuse to pay from their salary the cost of notarial fees; there is no penalty made in the law if there should be no report sent to my office; some agents report the number of cars of grain shipped, others report the number of pounds of grain billed out by them; such figures are very misleading and cannot be verified.

If this law was passed to give an account of the number of bushels of grain raised in each county it is a farce, for at many stations near the boundary lines of counties the bulk of the grain shipped is raised in adjoining counties.

ELEVATOR AND WAREHOUSE REPORTS—1909.

WHEAT

County	Bought	Shipped	Retailed	On Hand
Adams	153,885	112,130	40,445	.....
Barnes	3,050,305	3,018,524	8,332	24,034
Benson	1,678,774	1,589,616	3,327	17,978
Billings	53,972	48,961	4,619	1,166
Bottineau	3,718,423	3,644,111	4,065	4,830
Bowman	4,384	3,017	1,312	.....
Burleigh	159,552	149,687	5,994	3,089
Cass	4,118,748	3,849,475	8,248	27,872
Cavalier	2,492,795	2,520,168	12,624	8,367
Dickey	1,093,985	969,562	119,263	6,869
Dunn . . . . .	.....	.....	.....	.....
Eddy	444,546	440,037	587	2,969
Emmons	418,466	415,601	336	1,934
Foster	482,620	472,088	3,364	8,251
Grand Forks	1,997,238	2,212,292	3,806	21,581
Griggs	857,179	846,245	1,733	9,595
Hettinger . . . . .	.....	.....	.....	.....
Kidder	38,641	30,106	2,224	7,238
LaMoure	1,501,441	1,238,863	18,330	12,916
Logan	227,405	226,505	2,411	411
McHenry	2,824,894	2,623,312	8,764	13,546
McIntosh	292,551	293,957	789	.....
McKenzie . . . . .	.....	.....	.....	.....
McLean	930,136	892,889	9,631	7,160
Mercer	74,625	65,702	.....	289
Morton	993,188	921,460	68,482	4,746
Mountrail	74,025	71,565	3,470	.....
Nelson	889,169	802,299	1,258	2,726
Oliver . . . . .	.....	.....	.....	.....
Pembina	1,935,015	1,877,270	7,676	8,654
Pierce	794,893	800,797	780	866
Ramsey	186,962	1,762,430	66,863	32,350
Ransom	740,123	736,046	6,845	6,849
Richland	2,068,259	1,966,784	3,057	32,688
Rolette	916,397	916,016	1,164	11,921
Sargent	1,627,631	1,616,175	2,982	9,811
Sheridan	86,367	86,144	94	.....
Stark	572,452	525,789	19,643	5,875
Steele	1,113,353	1,116,757	3,822	2,320
Stutsman	1,015,023	988,132	5,274	21,317
Towner	1,447,716	1,469,450	1,681	19,515
Traill	2,567,630	2,579,492	6,320	12,876
Walsh	2,170,414	2,131,587	200	5,318
Ward	3,830,003	3,637,888	28,163	29,159
Wells	1,991,467	1,973,480	39,129	14,435
Williams	919,260	906,027	14,115	4,151
Totals	54,219,911	52,548,436	540,722	404,672

ELEVATOR AND WAREHOUSE REPORTS—Continued.

OATS

County	Bought	Shipped	Retailed	On Hand
Adams	430,117	.....	435,211	.....
Barnes	131,239	108,844	17,287	11,056
Benson	80,694	65,376	9,487	10,866
Billings	163,920	149,978	17,138	4,065
Bottineau	1,129,552	382,574	19,132	5,712
Bowman	14,240	1,600	11,249	1,328
Burleigh	477	.....	477	.....
Cass	201,142	161,336	19,253	4,951
Cavalier	446,426	433,008	7,314	15,886
Dickey	55,146	26,403	27,224	2,173
Dunn .....	.....	.....	.....	.....
Eddy	26,656	22,573	2,734	3,385
Emmons	49	.....	49	.....
Foster	120,264	103,118	11,313	8,317
Grand Forks	108,950	110,572	8,053	4,628
Griggs	66,672	58,895	2,402	4,059
Hettinger .....	.....	.....	.....	.....
Kidder	1,127	.....	482	604
LaMoure....	11,219	3,667	6,005	2,728
Logan	2,579	1,964	558	103
McHenry	349,074	312,684	12,239	8,266
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	60,699	46,733	14,909	4,023
Mercer .....	.....	.....	.....	.....
Morton	46,035	35,899	6,481	4,020
Mountrail	7,398	4,879	2,209	60
Nelson	28,040	13,770	2,173	3,371
Oliver .....	.....	.....	.....	.....
Pembina	138,368	126,396	8,479	5,774
Pierce	36,055	32,085	666	3,551
Ramsey	34,728	9,489	10,207	342
Ransom	127,157	115,936	3,996	4,441
Richland	501,329	376,429	119,925	7,411
Rolette	172,471	169,714	1,861	497
Sargent	113,908	102,155	9,047	4,060
Sheridan	1,711	1,714	.....	.....
Stark	32,023	24,626	6,541	585
Steele	87,423	88,350	943	1,007
Stutsman	69,258	36,438	27,891	5,018
Towner	101,127	80,676	15,989	5,515
Trall	96,888	93,155	10,274	1,333
Walsh	96,247	85,186	4,015	1,177
Ward	210,385	149,739	52,704	16,717
Wells	199,580	192,724	6,163	3,737
Williams	54,054	30,136	23,595	1,757
Totals	5,554,427	3,758,821	935,675	162,523

ELEVATOR AND WAREHOUSE REPORTS—Continued.

BARLEY

County	Bought	Shipped	Retailed	On Hand
Adams	215,886	.....	216,102	.....
Barnes	895,339	881,843	8,431	13,254
Benson	304,881	197,706	3,962	.....
Billings	16,522	10,480	5,552	134
Bottineau	319,686	317,230	7,049	2,991
Bowman	1,819	583	1,245	.....
Burleigh	124	.....	124	.....
Cass	888,039	835,925	11,207	17,300
Cavalier	525,862	535,108	1,510	4,371
Dickey	485,209	475,053	13,996	2,832
Dunn .....	.....	.....	.....	.....
Eddy	19,616	18,682	1,318	95
Emmons	6,125	5,457	774	.....
Foster	235,938	231,673	4,798	1,389
Grand Forks	372,086	383,531	2,543	6,217
Griggs	226,766	176,820	1,192	6,533
Hettinger .....	.....	.....	.....	.....
Kidder	156	.....	122	191
LaMoure	289,680	255,049	8,701	4,521
Logan	10,981	8,801	2,138	.....
McHenry	159,498	145,090	5,938	2,145
McIntosh	9,503	9,440	174	.....
McKenzie .....	.....	.....	.....	.....
McLean	8,480	7,369	1,011	.....
Mercer .....	.....	.....	.....	.....
Morton	1,769	1,100	671	.....
Mountrail .....	.....	.....	.....	.....
Nelson	92,680	84,631	4,951	4,091
Oliver .....	.....	.....	.....	.....
Pembina	914,828	925,778	7,520	5,255
Pierce	87,015	79,732	292	352
Ramsey	155,179	125,062	13,401	11,923
Ransom	138,451	135,002	1,046	2,001
Richland	656,659	647,873	3,286	5,534
Rolette	385,320	165,353	1,293	1,511
Sargent	408,947	411,332	4,486	5,886
Sheridan	1,114	1,129	.....	.....
Stark .....	.....	.....	.....	.....
Steele	328,467	329,682	620	1,715
Stutsman	198,461	184,298	12,913	3,205
Towner	332,427	338,970	9,304	1,617
Traill	323,467	319,958	3,375	3,140
Walsh	489,225	471,563	1,311	3,700
Ward	73,305	51,214	20,801	1,359
Wells	310,903	310,912	2,017	1,065
Williams	4,832	3,271	1,501	109
Totals	9,895,245	9,082,700	386,675	114,436

ELEVATOR AND WAREHOUSE REPORTS—Continued.

RYE.

County	Bought	Shipped	Retailed	On Hand
Adams .....	.....	.....	.....	.....
Barnes	4,313	3,665	.....	650
Benson	2,243	2,073	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau	1,798	1,788	.....	.....
Bowman .....	.....	.....	.....	.....
Burleigh	58	.....	.....	58
Cass	23,966	22,509	96	319
Cavalier .....	.....	.....	.....	.....
Dickey	456	453	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy	3,389	3,044	23	341
Emmons	869	869	.....	.....
Foster	44,304	43,690	1,775	256
Grand Forks	6,995	6,695	299	.....
Griggs	28,673	28,350	370	1,590
Hettinger .....	.....	.....	.....	.....
Kidder	4,262	3,694	324	350
La Moure	6,712	6,771	.....	.....
Logan	454	229	225	.....
McHenry	17,955	17,468	146	.....
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	7,423	7,318	6	54
Mercer .....	.....	.....	.....	.....
Morton	58	.....	58	.....
Mountrail .....	.....	.....	.....	.....
Nelson	57	.....	57	.....
Oliver .....	.....	.....	.....	.....
Pembina	3,144	3,073	.....	30
Pierce .....	.....	.....	.....	.....
Ramsey	8,200	998	22	2,581
Ransom	1,579	1,577	.....	.....
Richland	12,842	13,518	543	.....
Rolette	1,056	1,062	.....	.....
Sargent	587	847	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark	115	.....	115	.....
Steele .....	.....	.....	.....	.....
Stutsman	5,360	4,678	600	85
Towner .....	.....	.....	.....	.....
Traill	4,664	5,588	.....	.....
Walsh .....	.....	.....	.....	.....
Ward	1,128	831	293	.....
Wells	41,917	41,577	385	284
Williams	100	.....	100	.....
Totals	234,677	222,365	5,437	6,598

ELEVATOR AND WAREHOUSE REPORTS—Continued.

FLAX.

County	Bought	Shipped	Retailed	On Hand
Adams	968,988	931,857	48,576	.....
Barnes	450,865	442,425	4,346	3,510
Benson	158,873	151,193	1,436	1,658
Billings	146,216	138,000	8,504	1,075
Bottineau	420,154	415,477	3,289	945
Bowman	24,338	21,646	2,973	.....
Burleigh	109,455	107,572	1,119	790
Cass	444,121	441,623	3,491	7,801
Cavalier	120,736	112,590	859	632
Dickey	415,571	404,906	10,710	532
Dunn .....	.....	.....	.....	.....
Eddy	64,620	62,978	584	464
Emmons	222,518	212,606	146	30
Foster	64,620	62,730	2,110	497
Grand Forks	286,203	267,270	1,235	1,465
Griggs	150,650	145,084	692	1,941
Hettinger .....	.....	.....	.....	.....
Kidder	61,166	59,831	1,233	1,157
La Moure	522,805	475,593	3,955	2,198
Logan	148,483	146,973	1,440	.....
McHenry	354,008	320,869	2,095	2,514
McIntosh	175,809	174,508	1,065	.....
McKenzie .....	.....	.....	.....	.....
McLean	612,346	601,658	6,059	2,308
Mercer	10,964	10,011	.....	343
Morton	218,567	217,309	2,243	128
Mountrail	93,267	90,855	585	.....
Nelson	132,607	118,863	2,712	3,581
Oliver .....	.....	.....	.....	.....
Pembina	127,528	123,953	989	566
Pierce	56,795	56,609	218	165
Ramsey	146,687	135,798	1,049	628
Ransom	142,720	140,333	1,923	457
Richland	264,033	281,228	1,216	2,400
Rolette	86,971	86,846	677	420
Sargent	340,143	340,639	2,869	948
Sheridan	28,610	28,514	.....	.....
Stark	74,669	73,188	1,319	61
Steele	199,700	198,829	734	244
Stutsman	404,515	398,457	4,566	2,055
Towner	167,685	168,112	1,029	665
Traill	230,252	227,968	18,977	475
Walsh	225,877	217,558	326	1,263
Ward	1,075,498	1,058,709	5,488	5,349
Wells	268,066	257,312	1,963	.....
Williams	382,269	381,307	1,502	1,024
Totals	10,599,968	10,309,787	156,262	50,289

ELEVATOR AND WAREHOUSE REPORTS—Continued.

CORN.

County	Bought	Shipped	Retailed	On Hand
Adams	3,599	.....	3,704	.....
Barnes .....	.....	.....	.....	.....
Benson .....	.....	.....	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau .....	.....	.....	.....	.....
Bowman	3,134	.....	3,027	107
Burleigh .....	.....	.....	.....	.....
Cass .....	.....	.....	.....	.....
Cavaller .....	.....	.....	.....	.....
Dickey .....	.....	.....	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	740	739	.....	.....
Foster	10,061	.....	10,062	.....
Grand Forks .....	.....	.....	.....	.....
Griggs .....	.....	.....	.....	.....
Hettinger .....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....
La Moure	21,598	.....	17,118	.....
Logan .....	.....	.....	.....	.....
McHenry	2,798	377	1,835	590
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	25,973	25,808	243	.....
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson	2,813	.....	2,800	.....
Oliver .....	.....	.....	.....	.....
Pembina .....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....
Ramsey	26,051	.....	25,920	131
Ransom	5,613	.....	5,577	.....
Richland .....	.....	.....	.....	.....
Rolette	946	.....	943	.....
Sargent .....	.....	.....	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele	31	31	.....	.....
Stutsman .....	.....	.....	.....	.....
Towner	1,253	.....	1,254	.....
Traill	4,339	.....	4,364	.....
Walsh .....	.....	.....	.....	.....
Ward	9,034	1,691	6,173	1,117
Wells	4,196	4,215	.....	.....
Williams .....	.....	.....	.....	.....
Totals	122,179	32,861	83,020	1,945

ELEVATOR AND WAREHOUSE REPORTS—Continued.

TIMOTHY.

County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burleigh				
Cass	706	3,986		
Cavalier				
Dickey				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks	81	87		
Griggs				
Hettinger				
Kidder				
La Moure	137		137	
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Richland				
Rolette				
Sargent	738		799	
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill	161		166	
Walsh				
Ward				
Wells				
Williams				
Totals	1,823	4,073	1,102	

ELEVATOR AND WAREHOUSE REPORTS—Continued.

CLOVER.

County	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass
Cavaller
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure	28	.....	28	.....
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Trall
Walsh
Ward
Wells
Williams
Totals	28	.....	28	.....

ELEVATOR AND WAREHOUSE REPORTS—Continued.

BROME GRASS.

County	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure	10	.....	10	.....
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Trall
Walsh
Ward
Wells
Williams
Totals	10	.....	10	.....

ELEVATOR AND WAREHOUSE REPORTS—Continued.

MILLET SEED.

County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burleigh				
Cass				
Cavaller				
Dickey				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure	370		370	
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Richland				
Rolette				
Sargent	331		347	
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill				
Walsh				
Ward				
Wells				
Williams				
Totals	701		717	

ELEVATOR AND WAREHOUSE REPORTS—Continued.

ALFALFA.

County	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings	566	597	.....	.....
Bottineau
Bowman
Burleigh
Cass
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Trall
Walsh
Ward
Wells
Williams
Totals	566	597	.....	.....

ELEVATOR AND WAREHOUSE REPORTS—Continued.

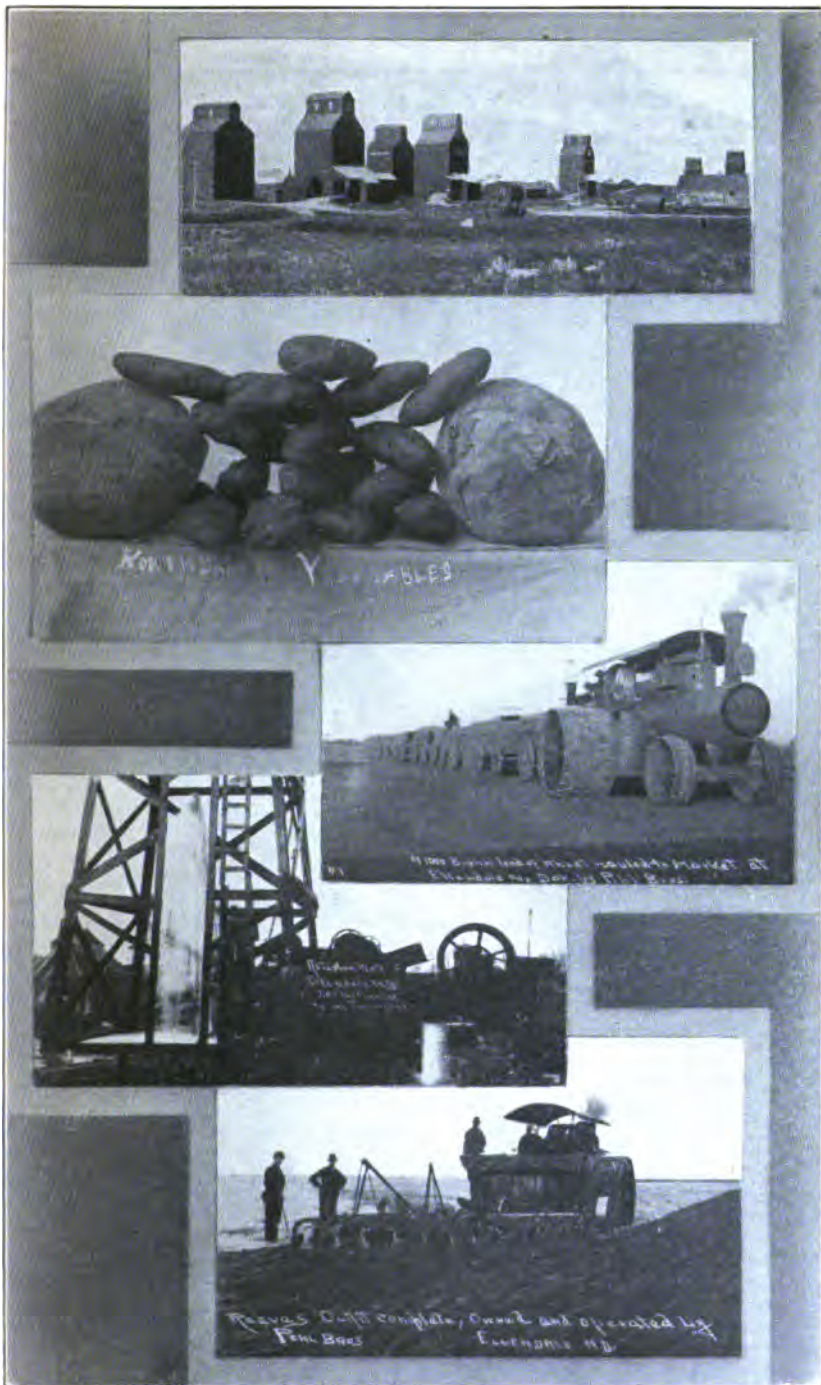
SPELTZ.

County	bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings	3,509	1,438	1,309	
Bottineau				
Bowman	76		81	
Burleigh				
Cass				
Cavaller				
Dickey				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
Logan				
LaMoure				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Richland				
Rolette				
Sargent	1,054		571	483
Sheridan				
Stark				
Steele				
Stutsman	391		391	
Towner				
Traill				
Walsh				
Ward	89		89	
Wells				
Williams				
Totals	5,119	1,438	2,441	483

ELEVATOR AND WAREHOUSE REPORTS—Continued.

DURUM WHEAT.

County	Bought	Shipped	Retailed	On Hand
Adams	179,840	29,720	148,140	.....
Barnes	550,711	547,222	3,854	2,735
Benson	45,708	37,974	327	1,069
Billings	2,238	2,191	28	.....
Bottineau	4,041	3,692	231	.....
Bowman	1,824	116	1,678	.....
Burleigh	4,094	4,042	.....	.....
Cass	279,206	264,317	494	1,061
Cavaller	6,501	6,381	.....	126
Dickey .....	.....	.....	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy	60,898	60,537	.....	.....
Emmons	20,409	20,293	.....	.....
Foster	153,814	160,977	2,794	35
Grand Forks	109,522	107,524	20	1,992
Griggs	176,016	172,076	.....	3,726
Hettinger .....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....
LaMoure	241,845	291,426	316	22
Logan	7,280	6,600	680	.....
McHenry	64,097	49,182	593	1,348
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean .....	.....	.....	.....	.....
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail	45	.....	45	.....
Nelson	48,608	43,214	.....	619
Oliver .....	.....	.....	.....	.....
Pembina	11,790	11,527	.....	377
Pierce	17,611	17,772	.....	.....
Ramsey	40,513	22,812	969	1,399
Ransom	526,531	525,263	1,816	973
Richland	337,777	361,759	671	963
Rolette	22,636	23,011	28	62
Sargent	429,870	408,409	596	2,079
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele	151,317	153,296	34	1,198
Stutsman	88,918	86,453	1,946	37
Towner	22,869	22,538	.....	609
Traill	30,729	30,087	.....	1,059
Walsh	23,441	22,059	178	740
Ward	48,947	46,119	1,540	1,438
Wells	143,822	143,031	1,325	271
Williams	14,458	14,293	34	345
Totals	3,867,926	3,695,903	168,337	24,283



1—Esmond Elevators. 2—Westhope Vegetables. 3—Hauling Wheat to Ellendale.
4—Ellendale Artesian Well. 5—Ellendale Steam Plow.

RAILROAD STATION AGENTS' REPORTS.—1909.

	Wheat	Oats	Barley	Flax
Adams				
Barnes	838,921	25,460	200,213	80,350
Benson	1,419,675	85,537	237,289	112,700
Billings				
Bottineau	189,693	22,700	8,415	1,400
Bowman				
Burleigh	93,662	1,563		30,194
Cass	373,270	23,979	125,186	18,492
Cavalier	641,926	141,400	175,433	20,100
Dickey	10,152		2,260	950
Dunn				
Eddy	21,700	3,200	5,470	2,000
Emmons				
Foster	984,092	108,640	381,451	74,761
Grand Forks	158,824	40,622	80,062	30,519
Griggs	39,286	4,918	18,677	713
Hettinger				
Kidder	6,671			8,842
LaMoure	301,089	25,587	65,744	167,843
Logan	1,100			
McHenry	9,322,000	30,150	3,500	79,000
McIntosh				
McKenzie				
McLean	26,110			1,400
Mercer				
Morton				
Mountrail				
Nelson	276,867	1,938	4,841	23,145
Oliver				
Pembina	46,900	2,000	75,575	4,000
Pierce	350,090	15,000	34,100	15,000
Ramsey	142,648	1,281	15,833	4,262
Ransom	152,105	8,411	13,340	6,061
Richland	320,914	42,470	85,269	25,260
Rolette		7,000	11,100	3,000
Sargent	199,084	5,000	50,160	40,211
Sheridan	66,297		1,800	11,700
Stark	49,226		157,612	35,000
Steele	72,612	26,200		
Stutsman	425,884	7,385	92,435	84,735
Towner	164,855		2,000	
Trall	106,390	10,011	14,538	5,238
Walsh	896,049	1,500	3,200	1,666
Ward	415,232	9,667	628	31,350
Wells	248,925	15,890	72,569	23,328
Williams	360,231	5,200		16,555
Total	18,722,478	672,709	1,964,086	963,900

RAILROAD STATION AGENTS' REPORTS—Continued.

	Rye	Corn	Speltz	Hay
Adams .....	.....	.....	.....	.....
Barnes .....	.....	10	.....	.....
Benson .....	.....	.....	.....	134
Billings .....	.....	.....	.....	.....
Bottineau .....	.....	.....	.....	.....
Bowman .....	.....	.....	.....	.....
Burleigh .....	.....	.....	.....	162
Cass	24,625	1,201	.....	158
Cavalier .....	.....	.....	2,000	.....
Dickey .....	.....	.....	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons .....	.....	.....	.....	.....
Foster	58,260	.....	.....	.....
Grand Forks .....	.....	1	.....	.....
Griggs	3,500	.....	.....	.....
Hettinger .....	.....	.....	.....	.....
Kidder	1,742	.....	.....	.....
LaMoure	3,764	.....	.....	.....
Logan .....	.....	.....	.....	.....
McHenry	6,500	.....	.....	.....
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean .....	.....	.....	.....	.....
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson .....	.....	.....	.....	85
Oliver .....	.....	.....	.....	.....
Pembina .....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....
Ramsey	1,100	.....	.....	159
Ransom .....	.....	402	.....	.....
Richland	3,375	1,462	.....	10
Rolette	800	.....	.....	.....
Sargent	800	.....	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark	2,000	.....	.....	25
Steele .....	.....	.....	.....	.....
Stutsman	5,003	.....	.....	28
Towner .....	.....	.....	.....	.....
Trall	1,950	.....	.....	.....
Walsh .....	.....	.....	.....	260
Ward .....	.....	.....	.....	220
Wells	3,000	.....	.....	.....
Williams .....	.....	.....	.....	138
Total	116,417	3,076	2,000	1,377

RAILROAD STATION AGENTS' REPORTS.—Continued.

	Potatoes.	Clover.	Timothy.	Brome Grass.	Millet Seed.
Adams					
Barnes	788				79
Benson					
Billings					
Bottineau					
Bowman					
Burleigh		8			
Cass			8,858		
Cavalier					
Dickey					
Dunn					
Eddy			2,800		
Emmons					
Foster					
Grand Forks				10	
Griggs					
Hettinger					
Kidder					
LaMoure					
Logan					
McHenry					
McIntosh					
McKenzie					
McLean					
Mercer					
Morton					
Mountrail					
Nelson					
Oliver					
Pembina					
Pierce					
Ramsey					50
Ransom					
Richland			880		
Rolette					
Sargent					2,340
Sheridan					
Stark					
Steele					
Stutsman					
Towner					
Trall					
Walsh					
Ward					
Wells					
Williams					
Total	788	8	12,538	10	2,469

THE VALUATION OF EACH CLASS OF PROPERTY IN THE COUNTIES NAMED AS LEFT BY
THE STATE BOARD OF EQUALIZATION FOR YEAR 1909.

	Real Estate	Personal	Railroads	Telegraph	Telephone	Express	Street Ry. Co.	Total
Adams	\$ 1,229,271	\$ 500,019	\$ 403,490	\$ 2,169	\$ 3,021	\$ 4,209	\$	2,142,629
Barnes	7,193,067	1,614,693	1,638,293	9,206	58,097	5,707	4,218	10,524,091
Benson	3,828,124	1,395,097	1,184,268	7,168	17,039	10,745	.....	6,442,491
Billings	2,745,909	1,231,128	772,717	5,362	4,233	4,901	.....	4,764,240
Botineau	7,951,212	1,772,073	1,203,744	5,815	23,732	11,721	.....	8,968,297
Bowman	1,028,398	539,704	414,902	2,586	864	4,157	.....	1,990,611
Burleigh	4,127,150	1,177,926	1,154,475	7,363	19,678	7,487	.....	6,494,079
Cass	13,957,168	3,881,539	2,965,111	23,572	117,821	23,260	29,291	20,997,762
Cavalier	5,193,212	1,390,402	838,845	6,756	18,325	8,663	.....	7,456,203
Dickey	3,903,433	946,653	1,033,010	10,638	21,666	9,903	.....	5,925,303
Dunn	1,239,959	580,332	.....	.....	1,571	.....	.....	1,821,862
Eddy	1,886,044	551,604	191,209	2,088	9,875	2,122	.....	2,642,942
Emmons	2,270,244	962,033	541,065	3,924	6,121	5,826	.....	3,789,213
Foster	2,424,270	583,308	528,329	4,217	16,720	3,872	.....	3,560,716
Grand Forks ..	9,607,174	2,586,576	1,349,778	16,477	124,385	13,926	6,025	14,153,941
Griggs	3,579,052	1,046,990	278,973	1,611	15,680	3,328	.....	4,925,634
Hettinger	1,250,134	552,944	.....	.....	1,830	.....	.....	1,804,908
Kidder	1,926,531	588,259	455,050	3,225	6,944	2,713	.....	2,982,722
LaMoure	4,123,341	1,159,295	811,319	8,150	16,930	9,282	.....	6,128,317
Logan	1,727,118	577,234	366,404	2,466	2,180	7,057	.....	2,682,459
McHenry	4,821,290	1,687,273	1,422,373	6,985	20,853	9,380	.....	7,968,154
McIntosh	2,187,637	828,409	416,938	3,154	1,704	2,853	.....	3,441,055
McKenzie	1,062,579	698,643	.....	.....	1,530	.....	.....	1,763,752
McLean	3,406,921	1,132,069	846,639	5,766	10,869	5,626	.....	5,407,890
Mercer	1,141,958	693,743	.....	.....	443	.....	.....	1,836,144
Morton	5,215,640	1,668,510	1,171,487	8,161	10,137	6,881	.....	8,080,816
Mountrail	1,953,303	732,153	724,307	.....	1,947	4,496	.....	3,316,206

Nelson	3,527,428	1,140,209	768,160	2,863	26,087	5,875	.....	5,470,612
Oliver	883,763	276,862	.....	.....	1,071	.....	.....	1,161,686
Pembina	4,588,002	1,269,607	970,429	10,636	25,770	9,398	.....	6,873,842
Pierce	2,986,807	790,429	516,346	3,733	6,202	4,373	.....	4,266,890
Ramsey	4,581,603	1,385,796	1,214,728	5,063	30,239	7,493	.....	7,224,922
Ransom	3,396,497	822,221	591,171	5,739	21,445	4,813	.....	4,841,886
Richland	7,271,380	1,675,465	2,079,585	20,107	40,187	18,167	.....	11,104,891
Rolette	2,427,952	802,841	546,460	3,280	3,697	5,193	.....	3,789,423
Sargent	2,700,661	937,408	1,023,906	9,326	21,942	10,733	.....	4,704,575
Sheridan	2,145,635	655,267	308,960	446	3,268	3,146	.....	3,116,722
Stark	2,766,889	912,431	906,777	6,298	7,059	5,297	.....	4,604,751
Steele	3,222,714	831,960	367,737	3,839	18,486	3,229	.....	4,447,965
Stutsman	7,657,614	1,602,611	1,497,739	12,411	42,993	11,377	.....	10,824,745
Towner	3,885,495	1,052,193	661,520	6,106	12,866	5,041	.....	5,623,211
Trall	4,903,417	1,295,043	866,217	8,879	35,246	7,604	.....	7,116,406
Walsh	-6,159,903	1,489,568	1,408,609	14,238	37,632	11,863	.....	9,121,203
Ward	11,185,472	3,547,208	3,238,430	20,443	40,503	21,634	.....	18,053,690
Wells	4,175,396	1,200,970	773,614	3,162	23,114	5,244	.....	6,181,500
Williams	4,828,535	1,712,465	1,303,154	8,290	8,882	8,547	.....	7,869,873
Total	\$182,124,702	\$54,429,143	\$40,255,267	\$293,118	\$941,724	\$317,142	\$39,134	\$278,400,230

AGRICULTURAL STATISTICS.

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1910.

Number of farms in North Dakota	64,442
Number of acres under cultivation	13,042,173½
Number of acres in farms, cultivated and uncultivated	21,495,842½

AGRICULTURAL PRODUCTS FOR 1909

Crop	Acres Sown [Planted]	Acres Harvested	Bushels Harvested [tons cut]
Spring Wheat	5,713,724¼	5,473,964¾	71,830,584
Durum Wheat	1,032,659½	990,248½	14,331,671
Winter Wheat	7,144¼	3,768	85,545
Flax	880,820¾	844,487¾	7,644,459
Oats	1,724,186¼	1,689,275¼	47,689,827
Barley	1,509,242¾	1,031,233	21,029,388
Hull-less Barley	20,727½	1,057	16,914
Spring Rye	23,641½	22,021½	247,595
Winter Rye	20,826	17,381¾	308,946
Speltz	125,478	123,625½	1,742,441
Corn	152,402¾	*95,922	1,856,091
Potatoes	40,201¾	.....	3,863,851
Roots of all kinds	7,773½	.....	76,540
Millet	78,084¼	.....	126,095
Hungarian	6,774	.....	8,361
Clover	12,804¾	.....	9,347½
Timothy	153,149¼	.....	144,715¼
Alfalfa	3,508¾	.....	3,571¾
Brome Grass	26,737	22,688
Other Tame Hay	21,015¾	39,642

*Fodder Corn

Prairie hay, tons cut	1,849,537
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ACREAGE LOST BY HAIL—1909.

Total loss	200,937½
Three-fourths loss	118,477
One-half loss	153,750
One-fourth loss	204,097

CROP ACREAGE FOR 1910.

Spring wheat	6,662,788
Durum wheat	1,007,696½
Winter wheat	17,811½
Flax	1,228,428¾
Oats	1,845,917
Barley	1,039,323¼

Spring Rye	15,657½
Winter Rye	18,398
Speltz	88,147½
Corn	231,700¼
Potatoes	52,785
Roots of all kinds	3,207
Millet	71,932½
Hungarian	6,391¼
Clover	24,931
Timothy	106,554½
Alfalfa	15,917¼
Brome Grass	14,708½
Other tame grasses	9,618½

Total 1910 crop acreage, including tame grasses.....12,461,908

Value of garden products sold in 1909.....\$ 70,028.73

Value of poultry and eggs sold in 1909.....708,562.31

DAIRY PRODUCTS—1909.

Number pounds butter made in families.....	9,434,175
Number pounds cheese made in families.....	49,679
Pounds milk sold cheese factories	858,769
Pounds milk sold creameries	2,608,436
Pounds cream sold creameries	5,241,216
Amount received for milk and cream sold to cheese factories, creameries or stations	\$635,209.73
Amount received for milk and cream sold, other than specified.....	\$236,023.46
Number of cows milking in 1910	157,202
Number of sheep sheared in 1909	136,177
Number of pounds wool clipped in 1909.....	765,314½
Number of fruit trees in bearing	29,796
Number of fruit trees not in bearing	105,354
Number of acres berries	2,381¼
Received for fruit marketed	\$ 6,827.21
Number of acres artificial forests	95,818

NUMBER OF LIVE STOCK—1910.

Horses	456,342
Mules	6,979
Cattle	476,033
Sheep	169,759
Hogs	206,707

Total 1,315,870

Value of animals fattened and killed for home use.....\$ 2,388,756.80

Amount received for cattle, hogs and sheep sold for market \$ 4,497,627.75 |

Amount received for horses sold to markets \$ 2,617,019.50 |

Value of all kinds of stock brought into the state \$ 4,445,150.43 |

COAL MINES—1910.

Number of mines operated	86
Number of tons mined, 1909	316,265
Number of men employed	3,066
Total wages paid miners	\$ 165,194.70

VITAL STATISTICS—1909

Number of males living on farms.....	144,614
Number of females living on farms.....	111,793
Number of births	6,672
Number of deaths	1,533

FARM LABOR STATISTICS—1909.

Number of male employes	36,678
Number of female employes	7,108
Total wages paid during the year.....	\$10,403,060.26

CREAMERIES, CHEESE FACTORIES AND STATIONS—1909.

Number of creameries	51
Number of pounds butter manufactured.....	2,134,483
Number of cheese factories	1
Number of pounds of cheese manufactured	6,000
Number of milk and cream stations	55

ELEVATORS AND WAREHOUSES—1910.

Number of farmers' elevators	212
Total capacity of farmers' elevators, bushels.....	6,453,000
Number of line elevators	1,190
Total capacity of line elevators, bushels.....	31,433,500
Number of lumber yards	591

FLOURING MILLS—1910.

Total number of mills	48
Daily capacity, barrels	19,715
Total number barrels milled during 1909.....	1,397,385

NUMBER OF FARMS AND ACREAGE—1910.

COUNTY	Total No. of Farms	Total No. of Acres in Farms Cultivated and Uncultivated	Total No. of Acres under Cultivation
Adams	1,170	227,870%	69,365%
Barnes	1,630	714,543	555,929
Benson	1,383	538,876	385,818
Billings	789	171,373	84,677
Bottineau	2,071	759,146	598,819
Bowman	766	178,280%	49,991½
Burleigh	1,231	883,305	142,815
Cass	1,488	784,706	678,900
Cavalier	3,000	648,299	448,110
Dickey	1,022	511,079	319,888
Dunn	761	227,334	55,703
Eddy	582	283,869	190,759
Emmons	1,266	361,118	135,978
Foster	546	282,640	228,235
Grand Forks	1,839	717,802	584,160
Griggs	731	324,517	236,937
Hettinger	1,284	271,854	104,269
Kidder	1,261	326,578	128,935½
LaMoure	1,152	583,269	425,568
Logan	1,014	329,609	128,499
McHenry	2,094	633,273	435,204
McIntosh	1,000	536,766	148,000
McKenzie	1,069	202,060	63,656
McLean	3,675	573,943	295,526
Mercer	725	159,344	60,700
Morton	2,005	694,466	225,886
Mountrail	2,050	409,844	147,163
Nelson	1,145	519,138	363,470
Oliver	614	215,930	66,435
Pembina	1,477	550,273	450,442½
Pierce	1,500	432,527	315,081
Ramsey	1,234	584,594	428,416
Ransom	1,045	319,732	220,101
Richland	1,625	557,241	408,445
Rolette	935	336,850	209,541
Sargent	1,002	412,694	250,146
Sheridan	705	216,707	132,846
Stark	1,047	357,757	137,821
Steele	825	388,220	324,440
Stutsman	2,115	750,711	490,499
Towner	1,075	525,220	408,250
Trall	1,347	392,547	316,371
Walsh	2,239	700,339	533,171
Ward	2,377	588,417	336,524
Wells	1,218	601,032	421,316
Williams	3,315	710,159	299,366
Totals	64,442	21,495,842½	13,042,173¾

SPRING WHEAT—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	10,857½	10,581½	188,712	17.83
Barnes	177,541	150,989	1,940,898	12.85
Benson	205,647	186,935	2,572,320	13.76
Billings	17,055	17,055	368,978	21.63
Bottineau	374,139	305,078	3,925,899	12.86
Bowman	4,194	1,796	73,705	41.03
Burleigh	58,727¼	47,379¼	573,314	12.10
Cass	296,678	285,467	3,065,032	10.73
Cavalier	217,892	205,814	3,120,554	15.16
Dickey	34,209	34,179	538,275	15.74
Dunn	25,188	25,162	440,272	17.49
Eddy	77,233	77,153	898,237	11.64
Emmons	75,998	75,998	787,500	10.36
Foster	77,515	73,516	845,429	11.49
Grand Forks	273,356	273,356	4,093,686	14.97
Griggs	99,826	90,851	1,370,434	15.08
Hettinger	50,828	50,667	925,087	18.25
Kidder	33,028	31,501	330,788	10.50
LaMoure	69,811	69,811	1,185,288	16.97
Logan	57,021	56,875	627,773	11.03
McHenry	263,895	259,221	3,189,295	12.30
McIntosh	69,060	67,060	487,940	7.27
McKenzie	18,628½	18,606½	381,802	20.52
McLean	147,778	140,269	766,579	5.46
Mercer	34,281	34,281	477,699	13.93
Morton	117,946	117,269	1,798,350	15.33
Mountrail	69,106	73,908	1,032,601	13.97
Nelson	184,229	184,188	2,844,627	15.44
Oliver	33,543	33,305	471,541	14.15
Pembina	177,673	160,025	1,951,817	12.19
Pierce	195,827	193,621	2,532,516	13.07
Ramsey	236,839	233,259	3,462,478	14.84
Ransom	23,331	23,086	347,181	15.03
Richland	152,800	143,094	2,230,139	15.58
Rolette	101,221	101,221	1,543,384	15.24
Sargent	27,299	26,161	385,631	14.74
Sheridan	86,205	86,205	709,784	8.23
Stark	76,426	78,710	1,215,648	15.44
Steele	117,589	117,589	1,709,758	14.54
Stutsman	205,939	196,417	2,075,711	10.56
Towner	208,361	205,507	2,996,658	14.58
Traill	131,336	126,800	902,413	7.11
Walsh	263,730	260,426	3,717,564	14.27
Ward	165,837	164,637	2,193,680	13.32
Wells	221,497	208,160	2,228,641	10.70
Williams	146,604	150,775½	2,304,966	15.28
Totals	5,713,724¼	5,473,964¾	71,830,584	13.12

DURUM WHEAT—1909.

COUNTY.	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	7,403	7,100	142,322	20.04
Barnes	122,369	111,359	1,612,977	14.48
Benson	4,721	4,721	63,500	13.45
Billings	2,989	2,989	63,371	21.20
Bottineau	190	190	2,420	12.73
Bowman	2,472	548½	51,604	94.16
Burleigh	6,000	5,537	56,873	10.27
Cass	83,930	78,580	986,491	12.55
Cavalier	475	475	8,960	18.86
Dickey	124,875	123,941	1,676,270	13.52
Dunn	199	199	2,488	12.50
Eddy	17,510	17,510	231,003	13.19
Emmons	5,023	5,023	57,937	11.53
Foster	30,275	29,355	386,675	13.17
Grand Forks	9,819	9,819	156,860	15.97
Griggs	35,267	32,577	536,542	16.46
Hettinger	10,415	10,415	21,477	2.06
Kidder	7,836½	7,466½	89,539	11.99
La Moure	169,401½	165,363	2,650,816	16.03
Logan	7,371	7,371	95,464	12.95
McHenry	1,975	1,969	27,252	13.84
McIntosh	684	684	7,999	11.69
McKenzie	941½	971½	11,338	11.67
McLean	4,880	3,267	53,057	16.24
Mercer	34	34	716	21.05
Morton	494	494	7,471	15.12
Mountrail	907	897	12,360	13.77
Nelson	10,832	10,812	182,150	16.84
Oliver	385	385	4,947	12.84
Pembina	320	320	4,230	13.21
Pierce	323	323	4,485	13.88
Ramsey	924	889	14,892	16.75
Ransom	100,751	91,217	1,293,510	14.18
Richland	38,041	37,024	541,933	14.63
Rolette	840	840	23,590	28.08
Sargent	90,791	90,431	1,460,231	16.14
Sheridan	707	707	8,266	11.69
Stark	245	245	6,074	24.79
Steele	43,803	43,788	691,658	15.79
Stutsman	38,177	37,438	467,395	12.48
Towner	5,356	5,316	90,167	16.96
Traill	4,571	4,431	72,800	16.42
Walsh	1,685	1,685	22,805	13.53
Ward	3,876	3,876	74,388	19.19
Wells	31,608	30,723	338,271	11.01
Williams	968	943	16,097	17.06
Total	1,032,659½	990,248½	14,331,671	14.47

WINTER WHEAT—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	10	10	100	10
Barnes	2½	2½	35	14
Benson	6	6	28	4.66
Billings	175	175	3,900	22.28
Bottineau	1	1	13	13
Bowman	.....	.....	.....	.....
Burleigh	32	32	151	4.71
Cass	686	604	10,834	17.93
Cavalier	.....	.....	.....	.....
Dickey	8	8	112	14
Dunn	.....	.....	.....	.....
Eddy	.....	.....	.....	.....
Emmons	6	6	80	13.33
Foster	260	200	2,600	13
Grand Forks	16	10	150	15
Griggs	.....	.....	.....	.....
Hettinger	.....	.....	.....	.....
Kidder	62½	8½	102	12
LaMoure	438	415	4,677	11.26
Logan	.....	.....	.....	.....
McHenry	1¾	1¾	52	29.71
McIntosh	.....	.....	.....	.....
McKenzie	35	35	720	20.57
McLean	15	15	200	13.33
Mercer	.....	.....	.....	.....
Morton	.....	.....	.....	.....
Mountrail	.....	.....	.....	.....
Nelson	27	27	325	13.33
Oliver	30	30	480	16
Pembina	21½	.....	.....	.....
Pierce	.....	.....	.....	.....
Ramsey	3	2¾	333	121.09
Ransom	26	26	715	27.5
Richland	20	.....	.....	.....
Rolette	.....	.....	.....	.....
Sargent	.....	.....	.....	.....
Sheridan	.....	.....	.....	.....
Stark	.....	.....	.....	.....
Steele	786	786	24,640	31.34
Stutsman	.....	.....	.....	.....
Towner	1,361	1,311	34,026	25.95
Trall	68	53	1,085	20.47
Walsh	16	½	15	30
Ward	30	.....	.....	.....
Wells	.....	.....	134	.....
Williams	1	1	38	38
Totals	4,144¼	3,768	85,545	22.70

FLAX—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	10,859½	10,703½	107,955	10.08
Barnes	32,342	30,678	275,139	8.96
Benson	11,811	11,248	116,644	10.37
Billings	16,571	16,571	242,174	14.61
Bottineau	21,349	21,092	47,052	2.23
Bowman	5,752	2,846	88,058	30.94
Burleigh	23,131	17,601	182,572	10.37
Cass	22,079	19,664	173,461	8.82
Cavalier	1,751	1,717	19,442	11.32
Dickey	41,890	41,252	408,296	9.89
Dunn	6,825	6,825	74,713	10.94
Eddy	11,308	11,308	89,838	7.94
Emmons	16,990	16,846	156,117	9.26
Foster	7,307	6,951	53,062	7.63
Grand Forks	21,820	21,323	195,438	9.16
Griggs	12,938	11,706	125,978	17.61
Hettinger	10,859	10,859	127,243	11.71
Kidder	27,595¼	26,791	247,524	9.24
LaMoure	42,153½	41,632½	442,563	10.63
Logan	38,927	38,917	307,276	7.89
McHenry	18,594	18,160	42,124	2.31
McIntosh	35,655	35,655	235,206	6.59
McKenzie	9,565	9,565	96,631	10.10
McLean	53,948	52,922	453,929	8.57
Mercer	6,962	6,962	65,944	9.47
Morton	23,862	23,272	224,485	9.64
Mountrail	24,776	21,414	129,033	6.02
Nelson	17,925	17,339	181,995	10.49
Oliver	3,713	3,692	33,127	8.97
Pembina	14,336	11,665	101,109	8.66
Pierce	7,876	7,860	66,505	8.46
Ramsey	13,189	12,545	149,856	11.94
Ransom	13,901	13,268	145,374	10.95
Richland	16,548	16,034	143,316	8.93
Rolette	6,181	6,181	73,675	11.91
Sargent	23,187	23,020	294,478	12.79
Sheridan	21,124	21,124	92,215	4.36
Stark	5,160	5,151	60,360	11.71
Steele	17,408	14,922	175,332	11.74
Stutsman	53,937	52,216	465,581	8.91
Towner	15,894	15,446	175,257	11.34
Trall	8,011	7,853	67,842	8.38
Walsh	16,691	16,013	156,588	9.77
Ward	29,278	29,278	221,054	7.55
Wells	19,204	18,482	175,921	9.51
Williams	19,638	17,918	136,977	7.64
Totals	880,820¼	844,487½	7,644,459	9.05

OATS—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	12,654¾	12,359¾	980,122	79.30
Barnes	69,970	62,736	1,845,719	29.42
Benson	44,547	43,430	1,221,301	28.12
Billings	20,441	20,441	829,307	40.57
Bottineau	77,049	75,402	2,479,256	32.88
Bowman	8,107	3,892	278,318	69.89
Burleigh	19,358½	13,992½	368,733	26.35
Cass	77,357	68,505	2,583,789	37.71
Cavalier	83,672	80,359	375,551	4.67
Dickey	21,163	26,108	774,141	29.65
Dunn	11,711	11,632	423,008	36.36
Eddy	26,831	26,831	764,581	28.49
Emmons	9,750	9,750	239,007	24.51
Foster	34,383	33,405	780,320	23.35
Grand Forks	77,656	77,656	2,212,746	28.49
Griggs	33,832	31,464	872,441	27.72
Hettinger	21,110	21,110	815,946	38.65
Kidder	16,128	15,556	365,263	23.48
La Moure	45,853	45,537	1,179,248	25.89
Logan	11,082	11,065	227,453	20.55
McHenry	70,542	69,386	1,769,559	25.50
McIntosh	5,882	5,362	115,620	21.56
McKenzie	14,356	14,299	482,366	33.73
McLean	40,012	38,442	116,735	3.03
Mercer	9,169	9,169	416,118	45.38
Morton	39,052	36,675	1,345,759	36.69
Mountrail	23,606	23,505	647,872	27.56
Nelson	46,174	46,078	1,455,657	31.59
Oliver	13,168	13,131	417,649	31.80
Pembina	62,363	57,656	1,514,175	26.26
Pierce	39,048	38,858	1,154,753	29.71
Ramsey	43,743	42,264	1,460,094	34.54
Ransom	28,428	26,839	903,701	33.67
Richland	67,277	67,182	1,783,008	26.53
Rolette	34,434	34,134	1,146,695	33.59
Sargent	25,425	24,236	786,769	32.46
Sheridan	18,050	18,050	256,673	14.22
Stark	21,994	21,968	802,884	36.54
Steele	38,864	38,864	1,216,435	31.29
Stutsman	67,076	65,811	1,624,034	24.67
Towner	56,861	55,777	1,839,437	32.97
Traill	31,361	31,163	873,110	28.01
Walsh	66,840	66,091	2,037,704	30.83
Ward	50,166	50,166	1,532,186	30.54
Wells	55,409	51,106	1,410,222	27.59
Williams	32,251	51,742	964,356	18.63
Totals	1,724,186¾	1,689,275¾	47,689,827	28.23

BARLEY—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield bushels Harvested
Adams	2,181¾	2,152¾	52,576	24.43
Barnes	47,141	40,536	755,612	18.64
Benson	32,311	29,802	609,972	20.46
Billings	1,965	1,965	54,385	27.67
Bottineau	24,666	23,293	549,134	23.14
Bowman	1,241	526	28,953	55.04
Burleigh	3,535½	3,459½	60,194	17.40
Cass	59,249	52,609	1,411,670	26.83
Cavaller	62,889	59,597	1,347,580	22.61
Dickey	41,560	41,394	806,602	19.72
Dunn	1,208	1,208	30,264	25.05
Eddy	12,285	12,155	222,521	18.30
Emmons	9,023	9,023	182,615	20.23
Foster	27,591	23,679	452,796	19.12
Grand Forks	67,380	67,380	1,438,807	21.35
Griggs	25,388	21,168	478,883	22.62
Hettinger	1,136	1,136	30,276	26.65
Kidder	5,881½	5,596	102,539	18.32
LaMoure	49,160	41,660	867,263	20.81
Logan	10,288	10,288	209,510	20.36
McHenry	19,846	19,790	383,234	19.36
McIntosh	31,240	31,240	116,063	3.71
McKenzie	725	725	19,968	27.54
McLean	6,079	5,735	13,025	2.27
Mercer	1,313	1,313	34,084	25.95
Morton	3,461	3,195	89,786	28.10
Mountrail	1,458	1,336	30,150	22.56
Nelson	36,612	36,546	1,020,873	27.90
Oliver	1,122	1,122	27,925	24.88
Pembina	80,619	69,665	1,221,765	17.53
Pierce	19,727	19,692	453,972	23.05
Ramsey	41,359	40,076	1,071,574	26.73
Ransom	12,648	11,907¾	266,219	22.35
Richland	39,486	39,037	808,699	20.71
Rolette	26,151	26,050	593,486	22.78
Sargent	21,436	21,244	397,955	18.72
Sheridan	4,167	4,167	80,102	19.22
Stark	2,191	2,191	49,309	22.50
Steele	30,652	30,652	648,867	20.51
Stutsman	38,957	36,396	607,073	16.67
Towner	47,428	46,820	1,021,821	21.32
Traill	28,359	26,906	568,163	21.11
Walsh	68,770	66,656	1,415,308	21.23
Ward	6,911	6,911	135,733	19.64
Wells	31,029	29,983	218,905	7.30
Williams	421,417	3,250	43,177	13.28
Totals	1,509,242¾	1,031,233	21,029,388	20.39

HULL-LESS BARLEY—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	15½	15½	366	24.40
Barnes				
Benson	325	325	1,875	5.76
Billings	31	31	348	11.22
Bottineau	22	22	442	20.09
Bowman	4½	3½	208	59.42
Burleigh	32	22	450	20.45
Cass				
Cavalier				
Dickey				
Dunn	3	3	60	20.
Eddy				
Emmons	23	23	500	21.73
Foster	50	50	500	10.
Grand Forks				
Griggs				
Hettinger	49	49	539	11.
Kidder				
LaMoure	29½	22	165	7.50
Logan				
McHenry				
McIntosh				
McKenzie	9	9	245	27.22
McLean	41	41	1,445	35.24
Mercer	39	39	1,227	31.46
Morton	2			
Mountrail	75	75	1,640	21.86
Nelson				
Oliver				
Pembina	130			
Pierce				
Ramsey	170	74	900	12.16
Ransom				
Richland				
Rolette	703	3	100	33.33
Sargent	30	30	800	26.66
Sheridan				
Stark	92	92	2,070	22.50
Steele				
Stutsman				
Towner	1	1	29	29.
Traill	12	12	240	20.00
Walsh	38	14	485	34.64
Ward	80			
Wells	15	15	240	16.00
Williams	18,706	86	2,040	23.72
Totals	20,727½	1,057	16,914	16.00



North Dakota Stock Farm.

SPRING RYE—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	5	5	50	10.
Barnes	314	310	4,350	14.03
Benson	585	550	9,230	16.78
Billings	150	150	3,000	20.
Bottineau	87	87	1,175	13.50
Bowman				
Burleigh	2,206	1,906½	26,380	13.84
Cass	226	62	2,575	41.53
Cavalier	94	94	1,508	16.04
Dickey				
Dunn	23	23	286	12.43
Eddy	2,893	2,893	21,993	7.60
Emmons	48	48	506	10.54
Foster	2,468	2,403	24,395	10.15
Grand Forks				
Griggs	1,424	1,334	12,423	9.31
Hettinger	10	10	141	14.10
Kidder	4,409½	3,899½	36,695	9.41
LaMoure	27½	20	595	29.75
Logan	334	334	4,683	14.02
McHenry	1,024	1,007	10,229	10.15
McIntosh	208	208	2,466	11.85
McKenzie	10	10	275	27.50
McLean	231	186	4,264	22.92
Mercer				
Morton	133	133	2,335	17.55
Mountrail	394	142	2,992	21.07
Nelson	616	616	5,164	8.38
Oliver	17	17	148	8.70
Pembina	317	312	5,563	17.83
Pierce	183	183	3,326	18.17
Ramsey	532	532	6,762	12.71
Ransom	212	212	3,585	16.91
Richland	222	222	2,121	9.55
Rolette	300	300	3,916	13.05
Sargent	8	8	60	7.50
Sheridan	422	422	4,729	11.20
Stark	58	58	848	14.62
Steele	70	70	900	12.85
Stutsman	843	826	10,843	13.12
Towner				
Traill	120	30	507	16.90
Walsh	89	89	721	8.10
Ward	101½	101½	1,663	16.46
Wells	2,106	2,098	22,549	10.74
Williams	121	110	1,644	14.94
Totals	23,641½	22,021½	247,595	11.24

WINTER RYE—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	1	1	10	10.
Barnes	197	92	1,889	20.53
Benson	112	112	1,510	13.48
Billings				
Bottineau	698	608	8,024	13.19
Bowman				
Burleigh	42	42	837	19.92
Cass	6,835	6,171	126,384	20.48
Cavaller	50	50	1,000	20.00
Dickey				
Dunn				
Eddy	4	4	50	12.50
Emmons	8	8	100	12.50
Foster	60			
Grand Forks	724	627	6,559	10.46
Griggs	65	65	1,100	16.92
Hettinger	2	2	39	19.50
Kidder	215	200	3,243	16.21
LaMoure	409	109	2,764	25.35
Logan	14	14	260	18.57
McHenry	1,007	982	10,824	11.02
McIntosh	3	3	45	15.
McKenzie	$\frac{1}{2}$	$\frac{1}{8}$	8	64.
McLean	130	8	32	4.
Mercer				
Morton	9	9	135	15.
Mountrail	24	24	500	20.83
Nelson	440	86	1,650	19.18
Oliver				
Pembina	1,413	761	11,640	15.29
Pierce	200	200	1,835	9.17
Ramsey	569	539	9,028	16.74
Ransom	124	70	1,480	21.14
Richland	3,089	3,089	57,117	18.49
Rolette				
Sargent	140	140	3,496	24.97
Sheridan				
Stark				
Steele	207	107	900	8.41
Stutsman				
Towner	75	75	1,250	16.66
Traill	3,108	2,534	43,084	17.
Walsh	563	503	9,436	18.75
Ward	48 $\frac{1}{2}$	48 $\frac{1}{2}$	1,047	21.81
Wells				
Williams	240	98	1,670	17.04
Totals	20,826	17,381 $\frac{1}{2}$	308,946	17.77

SPELTZ—1909

COUNTY	Acres Sown	Acres Harvested	Bushels Harvested	Av. Yield Bushels Harvested
Adams	948	948	29,142	30.74
Barnes	874	837	20,470	24.45
Benson	542	537	14,101	26.25
Billings	714	714	27,778	38.90
Bottineau	382	382	11,497	30.09
Bowman	342½	162	9,732	60.07
Burleigh	3,771	3,292	73,202	22.23
Casa	390	390	15,225	39.03
Cavaller	220	220	5,995	27.25
Dickey	8,887	8,336	185,356	22.23
Dunn	168	168	5,333	31.74
Eddy	1,179	1,179	29,270	24.82
Emmons	4,704	4,704	105,596	22.44
Foster	1,819	1,815	42,200	23.25
Grand Forks	678	678	20,213	29.81
Griggs	515	515	14,600	28.34
Hettinger	951	951	31,410	33.02
Kidder	3,092	2,899	58,585	20.20
LaMoure	4,973	4,973	132,966	26.73
Logan	6,761	6,703	156,272	23.31
McHenry	1,546	1,523	35,394	23.23
McIntosh	12,023	12,013	122,354	10.18
McKenzie	210½	210½	5,974	28.44
McLean	1,590	1,490	31,754	21.31
Mercer				
Morton	1,687	1,687	45,598	27.02
Mountrail	482	420	11,599	27.61
Nelson	491	456	14,195	31.34
Oliver	178	178	5,276	29.64
Pembina	12	12	250	20.83
Pierce	377	377	9,329	24.74
Ramsey	1,072	1,072	29,887	27.87
Ransom	1,830	1,780	48,065	27.
Richland	718	718	17,508	24.38
Rolette	149	129	4,040	31.31
Sargent	7,270	7,237	152,707	21.10
Sheridan	438	438	8,719	19.90
Stark	326	326	9,751	29.91
Steele	184	184	5,680	30.86
Stutsman	3,084	3,084	74,229	24.06
Towner	1,462	1,462	42,860	29.32
Traill	45	45	1,600	35.55
Walsh	92	92	2,810	30.54
Ward	1,121	1,121	3,222	2.88
Wells	1,846	1,818	36,935	20.31
Williams	45,326	45,350	33,692	.74
Totals	125,478	123,625½	1,742,441	14.09

CORN—1909

COUNTY	Acres Planted	Acres Cut for Fodder	Acres Husked	Bushels Husked
Adams	2,867 $\frac{1}{2}$	1,211 $\frac{1}{2}$	2,124 $\frac{1}{2}$	56,736
Barnes	1,705	4,532	1,154	32,465
Benson	1,496 $\frac{1}{2}$	780 $\frac{1}{2}$	197	3,919 $\frac{1}{2}$
Billings	585	242	343	11,011
Bottineau	866	815	40	560
Bowman	1,112	497	274	18,805
Burleigh	6,778 $\frac{1}{2}$	1,416	5,278 $\frac{1}{2}$	133,275
Cass	32,340	27,627	5,953	212,370
Cavalier	272	423	21 $\frac{1}{2}$	1,278
Dickey	7,333	2,106	3,303	113,875
Dunn	750 $\frac{1}{2}$	164 $\frac{1}{2}$	593 $\frac{1}{2}$	16,373
Eddy	193	127	43 $\frac{1}{2}$	1,647
Emmons	6,458	1,203	4,719	112,038
Foster	1,263 $\frac{1}{2}$	746	264	5,752
Grand Forks	8,259	7,365	894	33,792
Griggs	303 $\frac{1}{2}$	690	9	307
Hettinger	1,847	712	1,135	50,592
Kidder	1,440 $\frac{1}{2}$	577	815	27,715
LaMoure	3,579	1,534	1,970	53,564
Logan	403 $\frac{1}{2}$	81 $\frac{1}{2}$	314	10,060
McHenry	1,635	1,186	300	7,228
McIntosh	1,097	.....	.....	7,228
McKenzie	818 $\frac{1}{2}$	234 $\frac{1}{2}$	589 $\frac{1}{2}$	16,763
McLean	2,299	1,008 $\frac{1}{2}$	1,203	19,930
Mercer	1,017	.....	.....	.....
Morton	5,912	999	4,819	143,975
Mountrail	296	90	10	297
Nelson	976	841	134	4,565
Oliver	1,291	395	846	25,353
Pembina	3,769	3,506	130	2,790
Pierce	460 $\frac{1}{2}$	449	68 $\frac{1}{2}$	485
Ramsey	1,505	1,107	527	27,643
Ransom	5,054 $\frac{1}{2}$	2,770	4,394 $\frac{1}{2}$	63,544
Richland	21,131	10,368	11,468	371,550
Rolette	606	25	3 $\frac{1}{2}$	703
Sargent	6,488	2,643	2,845	112,428
Sheridan .....	.....	.....	.....	.....
Stark	2,126	628	2,303	44,145
Steele	2,877	2,733	144	8,820
Stutsman	1,619	63	1,556	22,777
Towner	482	463 $\frac{1}{2}$	17 $\frac{1}{2}$	452
Trail	8,580	7,158	597	19,007
Walsh	3,983	3,440	329	11,527
Ward	1,197 $\frac{1}{2}$	1,228 $\frac{1}{2}$	159 $\frac{1}{2}$	2,586 $\frac{1}{2}$
Wells	1,524	1,288 $\frac{1}{2}$	188 $\frac{1}{2}$	6,720
Williams	860 $\frac{1}{2}$	447 $\frac{1}{2}$	969 $\frac{1}{2}$	7,460
Totals	152,402 $\frac{1}{2}$	95,922	63,046	1,856,091

POTATOES—1909.

County	Acres Planted	Bushels Dug	Av. Yield Bushels Dug
Adams	555½	54,997	99.09
Barnes	585	126,155	215.64
Benson	714½	66,547	93.20
Billings	383	51,114	133.45
Bottineau	735	72,181	98.20
Bowman	268	21,545	80.39
Burleigh	898 2-3	70,704	78.73
Cass	2,979 2-3	284,526	95.51
Cavalier	859	111,282	129.54
Dickey	600	44,124	73.54
Dunn	255½	30,564	119.85
Eddy	422	41,904	99.29
Emmons	492	41,898	85.15
Foster	521½	43,607	83.69
Grand Forks	4,242	456,103	107.52
Griggs	446	61,863	138.70
Hettinger	468	65,621	140.21
Kidder	549½	41,008	74.69
LaMoure	766	85,580	111.72
Logan	461¼	42,168	91.47
McHenry	972	92,450	95.11
McIntosh	716	31,012	43.31
McKenzie	394	35,965	91.28
McLean	1,254½	71,507	57.02
Mercer	154	.....	.....
Morton	1,263	133,635	105.80
Mountrail	513	28,347	55.25
Nelson	1,417¾	135,446	95.58
Oliver	336	29,872	88.90
Pembina	1,498 2-3	163,029	108.83
Pierce	602¾	42,353	70.35
Ramsey	1,146	117,762	102.75
Ransom	501¼	52,373	104.53
Richland	1,560	120,093	76.98
Rolette	600	57,458	95.76
Sargent	592	47,733	80.63
Sheridan .....	.....	.....	.....
Stark	702	80,260	114.33
Steele	492	63,363	128.78
Stutsman	1,978	121,764	61.55
Towner	685¾	73,153	106.79
Traill	688	78,211	117.08
Walsh	2,483	267,211	107.61
Ward	1,186¾	63,129	53.22
Wells	649½	76,106¾	117.26
Williams	639	68,127¾	106.61
Total	40,201¾	3,863,851	96.48

ROOTS OF ALL KINDS—1909.

COUNTY	Acres Planted	Bushels Dug
Adams	327¾	9,864
Barnes	4	326
Benson	5¾	1,150
Billings	29	4,985
Bottineau	5¼	802
Bowman	5	1,039
Burleigh	11	1,484
Cass	60½	381
Cavaller	20¼	3,087
Dickey	¼	25
Dunn	35	1,270
Eddy	4	281
Emmons	12	210
Foster	3¼	1,290
Grand Forks	117	2,230
Griggs	201	1,633
Hettinger,	48	7,945
Kidder	4¼	325
LaMoure	5¾	698
McIntosh	2	120
Logan	¼	50
McHenry	13	1,253
McKenzie	11½	2,945
McLean	3,716½	691
Mercer	1	.....
Morton	132	1,495
Mountrail	461	1,483
Nelson	56¾	1,085
Oliver	1½	.....
Pembina	96	9,432
Pierce	2	10
Ramsey	15½	3,614
Ransom	305	85
Richland	4	552
Rolette	54	5,916
Sargent	2	240
Sheridan .....	.....	.....
Stark .....	.....	.....
Steele	2	702
Stutsman	4	537
Towner	14	606
Traill	3	720
Walsh	16	2,186
Ward	11	1,410
Wells	1,753¼	1,432
Williams	197 1-8	951
Total	7,773½	76,540

HAY—1909.

COUNTY	MILLET		HUNGARIAN	
	Acres Sown	Tons Cut	Acres Sown	Tons Cut
Adams	632	449½	7½	16
Barnes	7,022	11,718	63	93
Benson	2,866	5,338	....	....
Billings	81	119	40	120
Bottineau	1,059	1,750	28	....
Bowman	107	547	....	....
Burleigh	145½	380½	....	....
Cass	3,560½	5,542	....	....
Cavaller	194	156	3	6
Dickey	1,108	1,684	157	20
Dunn	65	120	....	....
Eddy	2,423½	5,104	10	10
Emmons	192	385	....	....
Foster	2,546	4,103	40	155
Grand Forks	6,629	8,887	467	667
Griggs	2,116	3,708	267	472
Hettinger	19	32	....	....
Kidder	72	141	....	....
LaMoure	2,819	5,064	325	519
Logan	5	5	....	....
McHenry	1,338	2,118	15	20
McIntosh	6	28	....	....
McKenzie	43¼	96	....	....
McLean	253	412	1½	4
Mercer .....	....	....	4	6
Morton	1,584	2,959	91	72
Mountrail	151	250	....	....
Nelson	830	1,471	30	30
Oliver	27	48	....	....
Pembina	2,966	4,017	348	447
Pierce	789	1,518	6	12
Ramsey	1,867	4,086	5	20
Ransom	1,647½	2,650½	....	....
Richland	2,571	4,161	....	....
Rolette	217	408	....	....
Sargent	1,711	4,947	60	....
Sheridan .....	....	....	....	....
Stark	286	651	2	50
Steele	3,158	4,623	1,006	1,194
Stutsman	4,153	7,019	185	317
Towner	878	1,757	10	10
Traill	5,400	5,955	368	536
Walsh	7,290*	9,801	3,211	3,518
Ward	1,351	2,021	5	9
Wells	5,672	9,653	19	39
Williams	234	212½	....	....
Total	78,084¼	126,095	6,774	8,861

HAY—1909—Continued.

COUNTY	CLOVER		TIMOTHY	
	Acres Sown	Tons Cut	Acres Sown	Tons Cut
Adams	8½	½	51½	21
Barnes	63	22	2,795	2,371
Benson .....	....	....	....	....
Billings	14	33	153	243
Bottineau	195	73	3,840	4,659
Bowman	17	6	....	....
Burleigh	9	6	360	145
Cass	5,187¼	3,149	26,613	24,653
Cavalier	58	370	4,183	3,430
Dickey	20	20	1,877	1,908
Dunn .....	....	....	7	10
Eddy	44	60	1,356½	4,191
Emmons	15	15	60	80
Foster	51	92	768	568
Grand Forks	604	234	17,408	14,097
Griggs	21	6	530½	484
Hettinger .....	....	....	77	100
Kidder	7	....	15	....
LaMoure	70	6	4,598	4,162
Logan .....	....	....	22	12
McHenry	92	59	3,900	2,643
McIntosh .....	....	....	....	....
McKenzie .....	....	....	24¾	30
McLean	29	89	333	290
Mercer .....	....	....	....	....
Morton	3	7	116	31
Mountrail	6	13	99	143
Nelson	488¾	64	1,229	1,040
Oliver	1	5	62	69
Pembina	1,313	639	24,095	23,279
Pierce	51	15	513	639
Ramsey	369	85	1,365	1,286
Ransom	106	50	3,945	4,789
Richland	1,405	1,585	10,804	11,686
Rolette	53¼	42	645	585
Sargent	75	86	3,881	3,851
Sheridan .....	....	....	....	....
Stark	12	15	370	219
Steele	590	81	3,372	2,358
Stutsman	11	7	1,131	528
Towner	86	71	700	576
Traill	644	1,166	14,681	13,884
Walsh	1,064	1,088	13,308	11,318
Ward	7	36	1,944½	2,329½
Wells	27	53	1,617½	1,701
Williams	3	5	299	306
Total	12,804¾	9,347½	153,149¾	144,715¾

HAY—1909—Continued.

COUNTY	ALFALFA		BROME GRASS	
	Acres Sown	Tons Cut	Acres Sown	Tons Cut
Adams	76¾	39	4	....
Barnes	76	73	1,535	1,264
Benson .....	....	....	822	793
Billings	37	11	95	109
Bottineau	41	32	1,224	841
Bowman	25	45	25	21
Burleigh	205	134¼	284¼	358
Cass	123½	85½	833	982
Cavalier	19	43	282	329
Dickey	60	48	568	514
Dunn	32	33	59	93
Eddy	33¾	26	2,159¾	1,037
Emmons	86	31	67	45
Foster	40	7	735	709½
Grand Forks	80	140	1,177	1,048
Hettinger	7	6	49	40
Griggs	30¾	66	1,022	826
Kidder	33	12	303	276
LaMoure	46	40	1,154	1,061
Logan	2	7	9	3
McHenry	68	64	921	736
McIntosh .....	....	....	....	....
McKenzie	137½	189	12	6
McLean	32	59	394	513
Mercer	31	36	99	62
Morton .....	....	....	....	....
Mountrail	14	5	80	95
Nelson	347	18	718	585
Oliver .....	....	....	1	3
Pembina	54½	1	307	292
Pierce	110	118	587½	570
Ramsey	264	100	622	488
Ransom	22½	66	467	490
Richland	189	8	174	183
Rolette	26¼	8	664	373
Sargent	6	5	71	55
Sheridan .....	....	....	....	....
Stark	85	56	554	788
Steele	444	1	808	989
Stutsman	194	446	2,409	1,211
Towner	70¾	50½	557	678
Traill	32	62	655	713
Walsh	24	33	1,469	1,459
Ward	71	201¾	838¼	719
Wells	41¾	20	1,646	1,169
Williams	191	1,145¾	278¼	161½
Total	3,508¾	3,571¾	26,737	22,688

HAY—1909—Continued.

COUNTY	OTHER TAME HAY		PRAIRIE HAY
	Tons Cut	Acres Sown	Tons Cut
Billings	100	30	15,142
Adams .....	.....	.....	25,712½
Barnes	520	721	46,845
Benson	1,366½	1,186	39,916
Billings	100	300	15,142
Bottineau	1,067	2,693	95,852
Bowman .....	.....	698	11,667
Burleigh	60	140	55,909
Cass	3,223	3,357	27,309
Cavalier	451	662	47,679
Dickey	27	547	55,935
Dunn .....	.....	.....	32,916
Eddy	55	107	18,825
Emmons .....	.....	.....	42,468
Foster	473	835	12,742
Grand Forks	1,238	1,246	39,394
Griggs	317	415	16,801
Hettinger .....	.....	.....	39,430
Kidder	16	23	61,363
La Moure	107	461	61,159
Logan .....	.....	.....	65,895
McHenry	233	678	70,234
McIntosh .....	.....	.....	63,380
McKenzie	45	24	25,093
McLean	1,589	1,367	62,837
Mercer	72	149	13,117
Morton	686	720	84,080
Mountrail	22	170	36,207
Nelson	130	649	46,984
Oliver	21	10	31,509
Pembina	689	996	32,746
Pierce	23	25	35,611
Ramsey	481	369	54,018
Ransom	187	532	41,439
Richland	2,076	3,427	48,065
Rolette	57	3,360	26,408
Sargent	146	450	68,488
Sheridan .....	.....	.....	.....
Stark	205	2,361	170
Steele	225	76	22,336
Stutsman	246	832	68,200
Towner	184	1,064	35,486
Trall	428	470	8,674
Walsh	1,043	1,094	33,242
Ward	258	2,890	50,564
Wells	2,638	4,515	23,539
Williams	11	23	54,155½
Totals	21,015½	39,642	1,849,537

ACREAGE LOST BY HAIL—1909.

COUNTY	Total Loss	Three-Quarter Loss	One Half Loss	One-Quarter Loss
Adams	208	952 $\frac{1}{4}$	1,076	964
Barnes	48,061	17,338	19,258	24,952
Benson	24,113 $\frac{1}{2}$	10,032	11,467	22,755
Billings .....	.....	46	62	582
Bottineau	12,326	13,001	15,970	11,127
Bowman .....	.....	.....	10	.....
Burleigh	7,555	4,630	4,540	4,179
Cass	1,036	1,475 $\frac{1}{4}$	1,625	1,100
Cavalier	4,795	1,235	4,705	2,905
Dickey	500	135	310	472
Dunn	561	162	344	118
Eddy	640	753	1,995	184
Emmons	370	233	1,701	260
Foster	8,266	7,011	12,724	12,784
Grand Forks	260	62	125	644
Griggs	2,285	1,007	1,582	2,250
Hettinger	943	140	512	344
Kidder	1,970	2,676	2,616	2,413
LaMoure	3,266	1,890	2,008	2,381
Logan	380	190	786	179
McHenry	7,043	3,467	7,195	15,813
McIntosh	267	311	310	300
McKenzie	28	115	122	189
McLean	2,862	3,758 $\frac{3}{4}$	7,028	9,552
Mercer	25	245	1,220	230
Morton	1,212	120	70	838
Mountrail	295	279	556	1,110
Nelson	180	544	950	775
Oliver .....	.....	390	414	120
Pembina	19,210	6,895	8,470	8,818
Pierce	752	1,034	2,250	2,040
Ramsey	5,042	3,453	3,760	18,481
Ransom	5,637	3,511	2,573	3,381
Richland	50	132	358	650
Rolette	657	3,315	724	2,689
Sargent	660	2,420	1,756	.....
Sheridan .....	.....	.....	.....	.....
Stark	133	.....	112	300
Steele	591	.....	4,278	5,990
Stutsman	7,987	7,182	9,479	14,697
Towner	1,965	1,760 $\frac{3}{4}$	3,123	1,367
Traill	32	225	110	914
Walsh	6,454	2,015	4,333	6,336
Ward	681	1,200	1,697	2,649
Wells	21,612	13,133	9,230	15,789
Williams	27	3	216	496
Total	200,937 $\frac{1}{2}$	118,477	153,750	204,097

ACREAGE FOR 1910.

COUNTY	Spring Wheat	Durum Wheat	Winter Wheat	Flax	Oats
Adams	27,743½	9,501	417½	23,277	13,035½
Barnes	221,665	102,152	212	36,286	75,431
Benson	241,987	9,425	1,368	19,387	48,966
Billings	44,759	3,189	50	24,017	16,995
Bottineau	339,277	180	26	29,461	92,628
Bowman	20,771	3,262	3	18,466	9,773
Burleigh	78,472	3,495	1,228	26,044	24,605
Cass	286,623	67,136	4,083	26,127	87,640
Cavalier	241,298	173	353	6,083	87,572
Dickey	52,761	149,082	99	42,087	33,649
Dunn	34,165	1,385	109	11,489	11,678
Eddy	83,661	14,091	.....	15,922	30,305
Emmons	92,850	4,155	.....	16,397	12,090
Foster	87,574	38,087	140	10,839	40,484
Grand Forks	349,997	5,120	770	21,825	77,678
Griggs	126,980	25,311	73	18,593	35,146
Hettinger	78,510	825	.....	22,821	19,798
Kidder	49,039½	8,674½	354	35,209¼	20,176
LaMoure	102,285	184,475	95	49,676	43,716
Logan	68,633	11,106	10	34,892	10,072
McHenry	301,122	1,475	204	23,633	72,340
McIntosh	114,930	438	.....	39,595	6,655
McKenzie	36,739	277	50	16,858	11,506
McLean	108,355	2,105	170	46,135	42,297
Mercer	38,703	.....	.....	8,685	9,573
Morton	149,456	169	45	229,777	36,466
Mountrail	95,295	1,155	22	14,725	24,443
Nelson	204,001	8,567	.....	22,898	48,472
Oliver	39,509	272	107	5,141	13,523
Pembina	171,608	205	1,958	16,901	69,838
Pierce	223,140	150	.....	12,786	42,325
Ramsey	245,740	676	46	20,282	48,050
Ransom	41,193	106,277	60	11,989	33,493½
Richland	202,646	17,383	36	17,867	69,486
Rolette	127,040	944	.....	13,247	38,341
Sargent	44,142	100,939	62	23,169	31,373
Sheridan .....	.....	.....	.....	.....	.....
Stark	84,734	346	82	10,833	20,913
Steele	175,356	24,612	3,807	32,630	42,912
Stutsman	228,772	41,558	99	51,829	75,879
Towner	245,150	4,443	80	19,382	59,810
Traill	142,115	4,982	40	7,438	35,758
Walsh	282,788	1,466	38	21,072	67,214
Ward	212,627	5,625	146	29,274	51,909
Wells	241,894	43,127	1,353	24,205	57,240
Williams	204,683½	357	16	19,179½	44,663
Total	6,662,788	1,007,696½	17,811½	1,228,428¾	1,845,917

ACREAGE FOR 1910—Continued.

COUNTY	Barley	Spring Rye	Winter Rye	Speltz	Corn
Adams	2,215½	32	.....	760½	3,799¾
Barnes	38,828	22	26	881	11,295
Benson	40,174	537	60	709¼	2,378½
Billings	1,262	5	.....	788	708
Bottineau	32,717	263	718	473	2,040½
Bowman	1,167	.....	2½	273	1,608½
Burleigh	4,193½	1,667½	149	4,309	15,400¼
Cass	53,130	80	7,496	575	37,182
Cavaller	57,513	1,989	20	320	628
Dickey	32,122	55	.....	7,527	9,908
Dunn	2,052	56	.....	215	848¾
Eddy	11,293	869	295	1,578	682½
Emmons	8,619	91	66	4,671	6,090
Foster	19,253	844	.....	1,825½	2,090
Grand Forks	58,956	76	92	485	12,886
Griggs	23,575	405	140	562	743½
Hettinger	1,450	15	7	815	1,699
Kidder	6,992½	2,304	529	3,770½	3,104
LaMoure	32,407	92	413	4,820	6,082
Logan	11,720	468	.....	7,091	834¼
McHenry	22,167	727	2,312	1,288	3,395
McIntosh	21,898	45	.....	21,584	1,319
McKenzie	1,517½	42	.....	222	1,331½
McLean	7,768	255	141¼	1,349	3,543½
Mercer .....	.....	.....	.....	227	1,116
Morton	4,294	88	52	1,455	5,705
Mountrail	2,878	474	27	567	282
Nelson	41,870	10	175	557	1,878
Oliver	1,434	15	7	214	2,035
Pembina	67,064	74	1,413	67¾	6,945½
Pierce	24,360	186	243	460	848
Ramsey	45,383	187	189	1,130	2,379
Ransom	8,899½	169	160	1,618	7,717
Richland	29,463	80	1,909	724	25,460
Rolette	32,936	108	15	183	293
Sargent	24,673	.....	346	5,376	10,560
Sheridan .....	.....	.....	.....	.....	.....
Stark	2,138	96	8	364	2,298
Steel	34,502	22	50	70	4,404
Stutsman	34,310	617	15	2,683	5,756
Towner	51,242	25	.....	1,482	664
Traill	29,215	200	586	.....	9,910
Walsh	66,305	115	423	76	6,541
Ward	7,799	310	18	1,235	2,562
Wells	32,687	1,843	25	1,985	3,404½
Williams	4,880¾	101	268	782	1,344¾
Total	1,039,323¼	15,657½	18,398	88,147½	231,700¼

ACREAGE FOR 1910—Continued.

COUNTY	Potatoes	Roots of All Kinds	TAME GRASSES		
			Millet	Hungarian	Clover
Adams	216¼	64½	246	4	4
Barnes	1,648	.....	6,693	85	582
Benson	812¼	24¾	2,565		
Billings	434	8	91	5	150
Bottineau	683	22¾	582	50	257
Bowman	202	8½	84		25
Burleigh	846¾	23½	301½		48¼
Cass	3,352	55½	3,042	165	8,366
Cavalier	786	20	84		409
Dickey	606	29	733		85
Dunn	278½	652	35		6
Eddy	513¾	¾	1,553		553
Emmons	473	3	100		6
Foster	497¾	3	2,400		164
Grand Forks	5,341	39	6,282	386	1,157
Griggs	368¾	33½	2,176	315¼	146
Hettinger	439	29	47		32
Kidder	516¾	12¾	179		80¼
LaMoure	9,026	6	2,730	308	177
Logan	568¾	.....	18		
McHenry	962	36½	1,145	15	248
McIntosh	489	10	26		
McKenzie	393¾	7	84½	5	2½
McLean	987	8½	194	8	23
Mercer	141	.....	28		
Morton	1,068	113	1,326		1
Mountrail	1,335	17	118		3
Nelson	1,068½	.....	778		438½
Oliver	352	1¼	35		½
Pembina	1,643¼	81¾	3,072½	497½	1,900
Pierce	486¾	6½	679	10	117½
Ramsey	1,480	106	1,504	77	343
Ransom	603¾	4	1,559½		201
Richland	1,627	6	2,740	9	1,402
Rolette	551	76½	158¼		120½
Sargent	747	.....	1,624	65	388
Sheridan					
Stark	626	11	58	1	
Steele	569	75	3,265	978	727
Stutsman	1,358	4¼	3,407	188	524½
Towner	929½	8	781		78
Traill	672	4	5,058	392	2,636
Walsh	2,565	92	6,175	2,795	3,083
Ward	925	1,275	737	8	73
Wells	740¾	183¾	7,384¾	25	355½
Williams	2,658¼	34¼	53½		18
Total	52,785	3,207	71,932½	6,391¼	24,931

ACREAGE FOR 1910—Continued.

COUNTY	TAME GRASSES—Cont'd			Other Tame Grasses	Total Acreage of Crop, Including Tame Grasses
	Timothy	Alfalfa	Brome Grass		
Adams	80¾	57¾	9¾	10¾	81,675¾
Barnes	3,154	260	338	249	499,807
Benson			511½	1,480½	370,385¾
Billings	368	14	284	50	93,127
Bottineau	4,233	192½	745	495	505,043½
Bowman	34	69	8		55,756
Burleigh	600½	66	199		161,645
Cass	2,010 1-3	92	575	100	587,830½
Cavalier	3,997	50	105	291	401,691
Dickey	2,447	56	276	6	331,528
Dunn	2	8	40		62,432¾
Eddy	933½	141¾	643	74	163,108¾
Emmons	133	68	65		145,872
Foster	508	122	456	235	205,522¾
Grand Forks	14,812	62	632	686	537,282
Griggs	814	20½	576	142	236,120¾
Hettinger	444	20	182¾		127,135¾
Kidder	124	308½	185	13	131,572
LaMoure	5,159	84	685	77	442,313
Logan	57	3½	17	40	145,530
McHenry	4,125	217	923	62	436,896½
McIntosh					206,989
McKenzie	56¾	223¾	24½	37	69,376¾
McLean	414	19	142	129	286,043¾
Mercer		7	261		58,741
Morton	171	39	87	106	430,418
Mountrail	270	19	94	6	141,730
Nelson	1,769½	117½	298½	241	333,140
Oliver	43		11		62,699¾
Pembina	20,902	130	337	1,934	366,572½
Pierce	317¾	15½	144		306,274½
Ramsey	1,663	116	148	148	369,647
Ransom	4,048	88½	147	28	218,255¾
Richland	10,496	48	75	780	382,287
Rolette	330	16	76	22	214,377½
Sargent	5,338	23	44	8	248,877
Sheridan					
Stark	227	69	640	6	123,450
Steele		22	379	62	324,440
Stutsman	381	192	1,112	545	449,625¾
Towner	1,017	95	868	36	35,609½
Traill	9,325	34	105	484	248,954
Walsh	10,600	103	498	587	472,536
Ward	2,085	86	473	20	317,187
Wells	1,743	12,434	1,034½	218	431,522½
Williams	647½	180	302½	216½	279,604
Total	106,554½	15,917¾	14,708½	9,618½	12,100,101

GARDEN AND POULTRY PRODUCE SOLD—1909.

COUNTY	Garden Products Sold	Poultry and Eggs Sold
Adams	\$ 2,913.00	\$ 6,625.75
Barnes	1,406.00	32,794.00
Benson	741.00	16,807.00
Billings	687.00	3,719.00
Bottineau	900.00	19,695.00
Bowman	437.00	1,299.00
Burleigh	3,208.00	17,619.05
Cass	1,126.00	42,389.44
Cavaller	3,391.00	13,102.00
Dickey	1,426.00	15,740.00
Dunn .....	.....	3,636.00
Eddy	392.50	4,767.00
Emmons	555.00	4,455.00
Foster	2,116.00	10,458.65
Grand Forks	2,441.00	35,175.00
Griggs	527.00	7,890.00
Hettinger	633.00	5,400.00
Kidder	985.00	3,860.00
LaMoure	1,229.00	21,378.00
Logan	813.75	9,493.63
McHenry	2,012.00	20,124.00
McIntosh	251.00	3,673.61
McKenzie	1,951.55	3,245.94
McLean	1,121.00	15,382.95
Mercer	1,730.00	3,443.00
Morton	3,006.10	15,178.00
Mountrail	1,884.00	15,624.68
Nelson	781.00	16,566.00
Oliver	798.80	3,416.36
Pembina	668.50	24,883.21
Pierce	583.00	9,682.00
Ramsey	2,180.00	24,468.35
Ransom	714.50	17,031.10
Richland	905.00	43,083.00
Rolette	3,174.00	7,706.50
Sargent	979.00	29,167.62
Sheridan .....	.....	.....
Stark	2,954.00	10,316.00
Steele	635.00	12,648.00
Stutsman	3,153.00	28,808.00
Towner	2,026.00	20,181.40
Trall	659.50	19,284.60
Walsh	3,369.00	25,035.00
Ward	2,540.00	24,621.95
Wells	1,487.08	20,219.07
Williams	4,538.45	18,768.45
Totals	\$ 70,028.73	\$ 708,562.31



Silo on Farm Near Glen Ullin, North Dakota.

DAIRY PRODUCTS—1909.

COUNTY	Lbs. Butter Made in Families	Lbs. Cheese Made in Families	Lbs. Milk Sold Cheese Factories	Lbs. Milk Sold Creameries	Lbs. Cream Sold Creameries
Adams	79,670	50	700	1,500	4,450
Barnes	355,732	250	.....	.....	57,842
Benson	240,750	230	.....	20	24,692
Billings	41,115	.....	.....	200	4,000
Bottineau	286,798	25	.....	3,300	3,515
Bowman	12,996	.....	.....	700	1,850
Burleigh	148,716	665	.....	54,630	139,370
Cass	459,754	8,050	21,125	7,920	103,043
Cavalier	299,110	6,455	3,000	4,198	63,506
Dickey	159,702	400	.....	500	223,063
Dunn	74,392	.....	.....	.....	900
Eddy	111,865	.....	.....	500	11,910
Emmons	30,518	1,206	.....	.....	265,026
Foster	109,494	.....	.....	.....	2,756
Grand Forks	515,651	350	136,075	26,400	198,509
Griggs	222,139	.....	.....	.....	.....
Hettinger	122,813	180	.....	.....	2,600
Kidder	111,110	.....	.....	11	542,202
LaMoure	261,282	10	8,000	18,715	214,048
Logan	64,851	2,000	.....	.....	463,990
McHenry	281,735	30	40	700	300
McIntosh	42,285	1,000	495,785	495,785	495,785
McKenzie	59,820	.....	.....	.....	.....
McLean	261,661	9,435	.....	50	23,149
Mercer	83,855	.....	.....	.....	.....
Morton	209,137	.....	165,000	1,568,624	339,817
Mountrail	154,710	4,090	.....	864	3,459
Nelson	400,135	132	.....	2,160	3,630
Oliver	73,864	50	.....	195,062	25,042
Pembina	419,835	1,300	.....	46,495	267,262
Pierce	224,331	150	.....	.....	985
Ramsey	331,842	50	.....	.....	24,932
Ransom	179,260	.....	.....	225	169,366
Richland	344,752	1,205	1,300	.....	467,858
Rolette	245,768	1,400	19,444	.....	.....
Sargent	72,220	150	.....	.....	564,510
Sheridan	95,230	.....	.....	.....	.....
Stark	92,436	6,205	.....	26,270	82,197
Steele	203,780	360	.....	2,450	16,101
Stutsman	256,181	550	.....	61,020	151,804
Towner	242,548	2,200	2,000	55,760	7,665
Traill	277,143	50	.....	.....	146,707
Walsh	488,171	.....	300	14,052	48,585
Ward	205,324	1,320	.....	25	37,504
Wells	280,097	.....	.....	20,000	23,200
Williams	199,597	181	6,000	300	14,086
Totals	9,434,175	49,679	858,769	2,608,436	5,241,216

DAIRY PRODUCTS—1909—Continued.

COUNTY	Rec'd. for Milk and Cream Sold to Cheese Factories, Cream- eries or Stations	Rec'd for Milk and Cream Sold, other than Specified	No. Cows Milking in 1910
Adams	\$ 1,460.00	\$ 2,279.50	1,357
Barnes	7,582.00	3,608.00	4,976
Benson	4,135.00	4,137.00	3,438
Billings	800.00	1,200.00	777
Bottineau	591.00	992.00	3,914
Bowman	565.00	2,210.00	402
Burleigh	22,163.97	3,738.75	3,116
Cass	23,270.25	22,539.00	5,887
Cavaller	7,678.00	2,677.00	4,277
Dickey	18,131.00	11,096.00	3,484
Dunn .....	.....	27.00	1,065
Eddy	2,876.00	162.00	1,214
Emmons	40,524.00	1,410.00	4,082
Foster	627.00	500.80	1,340
Grand Forks	20,199.00	7,153.00	6,407
Griggs	500.00	1,011.00	2,011
Hettinger	590.00	729.00	1,818
Kidder	47,617.00	9,669.00	3,784
LaMoure	21,331.00	7,613.00	3,937
Logan	48,716.65	24,544.00	5,228
McHenry	2,336.00	3,094.00	.....
McIntosh	65,413.00	.....	5,524
McKenzie .....	.....	.....	1,055
McLean	2,597.00	3,364.00	3,874
Mercer .....	.....	.....	962
Morton	75,624.00	12,243.00	11,257
Mountrail	1,519.00	1,751.00	2,224
Nelson	291.00	3,165.00	3,885
Oliver	22,877.10	1.00	2,135
Pembina	23,916.60	2,423.00	4,262
Pierce	1,970.00	25.00	3,900
Ramsey	1,724.00	10,952.00	3,555
Ransom	20,946.48	4,058.00	3,463
Richland	40,695.00	11,361.00	6,949
Rolette	1,350.00	1,036.90	2,517
Sargent	42,143.00	17,411.00	5,679
Sheridan .....	.....	.....	1,674
Stark	9,994.00	2,295.00	2,590
Steele	475.00	572.00	2,799
Stutsman	22,465.00	7,792.00	4,355
Towner	1,315.50	400.00	3,238
Trall	12,184.00	867.00	3,221
Walsh	4,887.00	10,599.00	5,659
Ward	6,357.51	22,412.34	4,377
Wells	2,581.00	3,096.00	1,894
Williams	2,191.67	9,809.17	3,640
Totals	\$ 635,209.73	\$ 236,023.46	157,202

SHEEP AND WOOL—1909.

COUNTY	Number Sheep Sheared	Pounds Wool Clipped
Adams	4,563	30,305
Barnes	811	6,732
Benson	259	1,978
Billings	11,902	46,614
Bottineau	285	1,188
Bowman	26,022	193,762½
Burleigh	4,468	23,102
Cass	2,135	17,697
Cavalier	510	3,893
Dickey	798	5,082
Dunn	9,092	47,746
Eddy	298	2,684
Emmons	4,792	18,658
Foster	1,427	10,590
Grand Forks	1,776	13,954
Griggs	1,430	8,305
Hettinger	10,476	49,839
Kidder	5,924	38,802
LaMoure	449	3,433
Logan	2,563	16,456
McHenry	1,309	3,747
McIntosh	1,357	7,801
McKenzie	936	5,847
McLean	431	2,886
Mercer	88	1,380
Morton	14,493	32,712
Mountrail	58	988
Nelson	777	5,426
Oliver	1,445	8,665
Pembina	4,826	36,380
Pierce	141	852
Ramsey	1,334	10,685
Ransom	416	2,573
Richland	809	5,095
Rolette	815	2,493
Sargent	1,262	8,425
Sheridan .....	.....	.....
Stark	7,123	33,116
Steele	263	2,102
Stutsman	3,718	23,244
Towner	617	4,167
Trall	1,564	9,360
Walsh	480	3,911
Ward	244	938
Wells	1,248	10,789
Williams	143	1,012
Totals	136,177	765,314½

ORCHARDS AND FRUITS—1909.

COUNTY	No. Fruit Trees in Bearing	No. Fruit Trees Not Bearing	No. Acres Berries	Rec'd. For Fruit Marketed	Acres Artificial Forests
Adams	24	1,398	98½	\$.....	96½
Barnes	248	5,279	52	52.00	1,570
Benson	246	2,283	23¼	50.00	2,114½
Billings	21	1,093	8	.....	126
Bottineau	1,120	1,333	9	326.00	1,652½
Bowman	100	178	78	.....	5,619
Burleigh	404	6,041	143	90.00	832½
Cass	510	3,683	174½	26.00	901½
Cavalier	119	517	65	1,607.00	1,867
Dickey	206	1,259	5	94.00	247
Dunn .....	.....	12	.....	.....	12½
Eddy	67	702	10½	52.00	1,099
Emmons	176	846	89	.....	81
Foster	17	551	14	.....	459½
Grand Forks	2,035	4,952	57½	954.00	3,166
Griggs	223	1,215	1½	.....	474½
Hettinger	24	467	1	.....	40
Kidder	215	512	¾	.....	2,603½
LaMoure	872	5,289	9	70.00	782
Logan	119	1,998	¾	.....	75½
McHenry	210	4,568	367	175.00	1,222½
McIntosh	6	900	8	.....	45
McKenzie	8	813	4¾	.....	17½
McLean .....	.....	263	¾	.....	529½
Mercer .....	.....	.....	.....	.....	.....
Morton	120	3,139	53	28.00	8,752
Mountrail .....	.....	243	3	1.00	750
Nelson	67	1,863	80½	15.00	898½
Oliver .....	.....	121	½	12.00	18½
Pembina	251	1,648	11-16	30.00	1,286½
Pierce	944	1,112	2½	90.00	4,609½
Ramsey	537	1,117	74	35.00	4,008
Ransom	167	3,277	3¾	30.00	911½
Richland	1,452	10,019	15	151.00	1,279
Rolette	314	1,105	85	33.21	1,045
Sheridan .....	.....	.....	.....	.....	.....
Sargent	12,019	13,547	5	124.00	1,020
Stark	422	131	20	30.00	243
Steele .....	.....	4,609	565	227.00	1,214
Stutsman	183	1,860	24	.....	534
Towner	62	1,305	7¾	520.00	732
Trall	749	2,399	9	390.00	862
Walsh	2,216	7,495	85	560.00	4,728
Ward	1,848	1,853	79	55.75	29,368
Wells	392	1,432	13½	955.25	1,295
Williams	294	297½	36	54.00	6,629
Totals	29,796	105,354½	2,381¾	\$6,837.21	95,818

LIVE STOCK—1910.

COUNTY	Horses	Mules	Cattle	Sheep	Hogs
Adams	2,889	88	3,326	5,489	946
Barnes	14,061	90	13,192	1,962	7,105
Benson	10,409	439	8,300	749	4,048
Billings	3,169	16	3,159	10,338	1,024
Bottineau	13,630	238	10,744	792	4,532
Bowman	2,351	47	3,098	30,881	303
Burleigh	8,203	261	12,702	4,683	8,760
Cass	17,790	162	15,957	5,007	10,900
Cavalier	13,932	56	10,334	1,146	5,710
Dickey	9,754	174	14,642	1,046	7,486
Dunn	5,859	7	9,455	13,751	2,047
Eddy	5,055	53	4,877	488	2,596
Femmons	11,171	71	16,339	3,911	4,918
Foster	5,508	99	4,384	1,944	3,130
Grand Forks	14,580	346	14,232	2,310	7,414
Griggs	7,667	75	5,144	2,198	3,084
Hettinger	5,906	41	4,921	9,508	2,779
Kidder	7,187	338	13,243	8,535	2,023
LaMoure	10,978	172	12,579	856	5,913
Logan	6,821	10	13,711	2,982	3,553
McHenry	16,445	304	12,380	1,766	3,150
McIntosh	6,528	26	10,454	2,190	3,590
McKenzie	4,317	241	6,969	2,922	1,305
McLean	10,281	306	23,954	852	3,518
Mercer	2,970	.....	4,698	757	3,591
Morton	11,971	41	22,085	12,837	6,813
Mountrail	35,760	88	6,096	1,194	1,476
Nelson	11,207	261	12,586	1,101	4,521
Oliver	4,649	39	7,214	2,030	2,486
Pembina	10,872	64	10,684	6,879	2,757
Pierce	9,716	77	7,519	200	4,870
Ramsey	11,570	167	8,801	1,717	5,553
Ransom	7,018	64	10,404	415	5,220
Richland	13,427	204	19,417	1,625	11,112
Rolette	7,054	66	7,137	936	3,741
Sargent	10,402	241	18,202	2,199	10,420
Sheridan	5,704	127	4,533	4,000	4,957
Stark	8,498	29	9,192	6,084	3,700
Steele	8,326	70	7,074	392	4,048
Stutsman	13,962	149	13,894	3,787	4,408
Towner	11,898	435	6,773	1,316	6,798
Trails	7,686	235	7,558	1,854	3,658
Walsh	15,568	73	14,101	1,683	8,231
Ward	10,699	468	10,271	340	4,028
Wells	11,224	138	10,291	1,822	6,194
Williams	11,670	283	9,357	285	3,831
Totals	456,342	6,979	476,033	169,759	206,757

ORCHARDS AND FRUITS—1909.

COUNTY	No. Fruit Trees in Bearing	No. Fruit Trees Not Bearing	No. Acres Berries	Rec'd. For Fruit Marketed	Acres Artificial Forests
Adams	24	1,398	98½	\$.....	96½
Barnes	248	5,279	52	52.00	1,570
Benson	246	2,283	23¼	50.00	2,114½
Billings	21	1,093	8	.....	126
Bottineau	1,120	1,333	9	326.00	1,652½
Bowman	100	178	78	.....	5,619
Burleigh	404	6,041	143	90.00	832½
Cass	510	3,683	174¾	26.00	901¾
Cavalier	119	517	65	1,607.00	1,867
Dickey	206	1,259	5	94.00	247
Dunn .....	.....	12	.....	.....	12¾
Eddy	67	702	10½	52.00	1,099
Emmons	176	846	89	.....	81
Foster	17	551	14	.....	459½
Grand Forks	2,035	4,952	57½	954.00	3,166
Griggs	223	1,215	1½	.....	474¾
Hettinger	24	467	1	.....	40
Kidder	215	512	¾	.....	2,603¼
LaMoure	872	5,289	9	70.00	782
Logan	119	1,998	½	.....	75½
McHenry	210	4,568	367	175.00	1,222½
McIntosh	6	900	8	.....	45
McKenzie	8	813	4¾	.....	17¾
McLean .....	.....	263	¾	.....	529¾
Mercer .....	.....	.....	.....	.....	.....
Morton	120	3,139	53	28.00	8,752
Mountrail .....	.....	243	3	1.00	750
Nelson	67	1,863	80½	15.00	898½
Oliver .....	.....	121	½	12.00	18½
Pembina	251	1,648	11-16	30.00	1,286½
Pierce	944	1,112	2½	90.00	4,609¾
Ramsey	537	1,117	74	35.00	4,008
Ransom	167	3,277	3¾	30.00	911¼
Richland	1,452	10,019	15	151.00	1,279
Rolette	314	1,105	85	33.21	1,045
Sheridan .....	.....	.....	.....	.....	.....
Sargent	12,019	13,547	5	124.00	1,020
Stark	422	131	20	30.00	243
Steele .....	.....	4,609	565	227.00	1,214
Stutsman	183	1,860	24	.....	534
Towner	62	1,305	7¼	520.00	732
Traill	749	2,399	9	390.00	862
Walsh	2,216	7,495	85	560.00	4,728
Ward	1,848	1,853	79	55.75	29,868
Wells	392	1,432	13¾	955.25	1,295
Williams	294	297½	36	54.00	6,629
Totals	29,796	105,354½	2,381¾	\$6,837.21	95,818

LIVE STOCK—1910.

COUNTY	Horses	Mules	Cattle	Sheep	Hogs
Adams	2,889	88	3,326	5,489	946
Barnes	14,061	90	13,192	1,962	7,105
Benson	10,409	439	8,300	749	4,043
Billings	3,169	16	3,159	10,338	1,024
Bottineau	13,630	238	10,744	792	4,532
Bowman	2,351	47	3,098	30,881	303
Burleigh	8,203	261	12,702	4,683	3,750
Cass	17,790	162	15,957	5,007	10,900
Cavalier	13,932	56	10,334	1,146	5,710
Dickey	9,754	174	14,642	1,046	7,486
Dunn	5,859	7	9,455	13,751	2,047
Eddy	5,055	53	4,877	488	2,596
Fmmons	11,171	71	16,389	3,911	4,918
Foster	5,508	99	4,384	1,944	3,130
Grand Forks	14,580	346	14,232	2,310	7,414
Griggs	7,667	75	5,144	2,198	3,084
Hettinger	5,906	41	4,921	9,508	2,779
Kidder	7,187	338	13,243	8,535	2,023
LaMoure	10,978	172	12,579	856	5,913
Logan	6,821	10	13,711	2,982	3,553
McHenry	16,445	304	12,380	1,766	3,180
McIntosh	6,528	26	10,454	2,190	3,590
McKenzie	4,317	241	6,969	2,922	1,305
McLean	10,281	306	23,954	852	3,518
Mercer	2,970	.....	4,698	757	3,591
Morton	11,971	41	22,085	12,837	6,313
Mountrail	35,760	88	6,096	1,194	1,476
Nelson	11,207	261	12,586	1,101	4,521
Oliver	4,649	39	7,214	2,030	2,486
Pembina	10,872	64	10,684	6,879	2,757
Pierce	9,716	77	7,519	200	4,870
Ramsey	11,570	167	8,801	1,717	5,553
Ransom	7,018	64	10,404	415	5,220
Richland	13,427	204	19,417	1,625	11,112
Rolette	7,054	66	7,137	936	3,741
Sargent	10,402	241	18,202	2,199	10,420
Sheridan	5,704	127	4,533	4,000	4,957
Stark	8,498	29	9,192	6,084	3,700
Steele	8,326	70	7,074	392	4,048
Stutsman	13,962	149	13,894	3,787	4,403
Towner	11,898	435	6,773	1,316	6,798
Traill	7,686	235	7,558	1,854	3,658
Walsh	15,568	73	14,101	1,683	8,231
Ward	10,699	468	10,271	340	4,028
Wells	11,224	138	10,291	1,822	6,194
Williams	11,670	283	9,357	285	3,831
Totals	456,342	6,979	476,033	169,759	206,757

LIVE STOCK—1909

COUNTY	Value of Animals Fattened and Killed for Home Use	Rec'd. for Cattle, Hogs and Sheep Sold for Market	Rec'd. for Horses Sold to Market	Value of All Kinds Stock Brought Into State
Adams	\$ 11,825.00	\$ 24,728.80	\$ 24,229.50	\$ 85,615.50
Barnes	82,702.00	133,063.00	87,146.00	134,301.00
Benson	60,684.30	64,233.40	60,179.50	109,705.00
Billings	9,233.00	36,663.00	30,630.00	62,020.00
Bottineau	67,494.00	74,560.00	118,243.00	173,399.00
Bowman	2,302.00	67,421.50	22,605.00	88,439.00
Burleigh	29,938.50	131,596.50	41,321.00	60,396.00
Cass	111,611.00	158,688.00	93,961.00	96,323.00
Cavalier	87,226.00	90,519.00	68,199.50	104,641.65
Dickey	41,210.00	224,280.00	55,150.00	116,836.00
Dunn	25,568.00	135,759.00	66,765.00	53,940.00
Eddy	27,252.75	56,482.40	40,525.00	43,245.00
Emmons	18,839.00	158,926.00	51,631.00	33,930.00
Foster	29,639.75	45,813.50	39,018.00	66,210.00
Grand Forks	96,531.00	153,369.00	107,830.00	136,278.00
Griggs	35,269.00	42,441.00	49,589.00	60,915.00
Hettinger	29,787.00	45,506.00	58,453.00	119,898.00
Kidder	23,147.00	139,738.00	61,466.00	86,401.00
LaMoure	62,724.00	137,605.00	121,192.00	236,902.00
Logan	46,609.00	145,560.00	60,292.00	131,787.00
McHenry	76,208.00	99,048.00	54,369.00	154,000.00
McIntosh	20,882.00	41,188.00	13,927.00	33,438.50
McKenzie	19,509.00	79,522.50	58,831.00	81,511.00
McLean	39,849.00	48,556.00	64,005.00	135,759.00
Mercer	29,162.00	35,161.00	12,632.00	13,781.00
Morton	92,058.00	170,715.00	90,951.00	112,799.00
Mountrail	25,465.00	22,785.00	25,231.00	54,826.60
Nelson	79,652.00	84,197.00	82,209.00	76,375.00
Oliver	10,337.00	46,161.00	14,918.00	31,681.00
Pembina	98,910.50	84,225.05	52,769.00	111,377.43
Pierce	60,133.00	87,442.00	33,999.00	97,567.50
Ramsey	63,955.00	68,984.00	66,941.00	83,639.00
Ransom	50,473.00	112,050.00	33,778.00	79,049.00
Richland	97,946.00	213,906.00	44,740.00	46,947.00
Rolette	49,393.00	46,886.00	55,991.00	51,754.00
Sargent	54,580.00	270,552.00	62,075.00	106,379.50
Sheridan	37,281.00	17,853.00	37,525.00	71,801.00
Stark	45,087.00	162,232.00	52,450.00	56,759.00
Steele	61,025.00	63,068.00	44,402.00	71,425.00
Stutsman	63,452.00	130,059.00	96,650.00	153,528.00
Towner	78,103.00	62,453.60	77,799.00	129,451.00
Traill	54,194.00	66,376.00	19,845.00	67,423.00
Walsh	113,857.00	88,189.00	73,705.00	123,634.00
Ward	42,845.00	63,636.00	52,862.00	141,000.00
Wells	75,605.00	218,742.00	53,089.00	139,569.75
Williams	49,203.00	48,687.50	82,801.00	218,493.00
Totals ..	\$2,388,756.80	\$4,497,627.75	\$2,617,019.50	\$4,445,150.43

COAL MINES—1910.

COUNTY	No. Mines Operated	No. Tons Mined	Average Cost Per Ton	No. Men Employed	Total Wages Paid Miners	Average No. Hours Daily Labor
Adams	10	6,626	.75	34	\$ 4,552.00	8
Barnes						
Benson						
Billings	4	761	1.25	13	65.00	8
Bottineau						
Bowman	1	8,031	1.13	12	9,075.00	10
Burleigh	7	21,240	.55	142	6,748.60	10
Cass						
Cavalier						
Dickey						
Dunn		1,813				
Eddy						
Emmons	1		1.80			8
Foster						
Grand Forks						
Griggs						
Hettinger	6	4,280	.92	15	2,570.00	10
Kidder						
LaMoure						
Logan						
McHenry						
McIntosh						
McKenzie	7	681	1.04	6	230.00	8 2-3
McLean	5	5,100	3.10	17	2,265.00	12 1/2
Mercer		1,676	1.73			
Morton	3	8,454	1.00	27	2,000.00	10
Mountrail	6	4,250	.90	29	3,000.00	10
Nelson						
Oliver	1	350	.65	4	100.00	8
Pembina						
Pierce						
Ramsey						
Ransom						
Richland						
Rolette						
Sargent						
Sheridan						
Stark	2	11,000	1.40	15	10,500.00	10
Steele						
Stutsman						
Towner						
Trail						
Walsh						
Ward	21	134,478	1.35	224	60,043.00	9
Wells						
Williams	12	7,525	1.85	2,528	4,046.10	
Total ..	86	316,265	.....	3,066	\$165,194.70	

VITAL STATISTICS—1909.

COUNTY	No. Males Living On Farms	No. Females Living On Farms	No. of Births	No. of Deaths
Adams	1,468	1,139	59	7
Barnes	4,713	3,562	210	38
Benson	3,567	2,654	153	40
Billings	1,368	1,004	62	6
Bottineau	5,241	4,212	255	42
Bowman	989	795	8	1
Burleigh	2,811	2,307	79	15
Cass	5,671	4,348	133	34
Cavaller	4,678	3,758	149	28
Dickey	2,954	2,118	92	16
Dunn	1,758	1,325	79	24
Eddy	1,463	1,212	50	14
Emmons	2,341	2,156	417	77
Foster	1,578	1,104	56	13
Grand Forks	5,691	4,456	146	56
Griggs	1,961	1,369	62	18
Hettinger	2,549	2,085	129	29
Kidder	2,481	1,986	163	26
LaMoure	3,316	2,839	175	51
Logan	2,666	2,411	198	37
McHenry	4,834	3,956	261	54
McIntosh	2,464	2,117	328	61
McKenzie	1,569	1,102	85	17
McLean	4,372	3,539	275	56
Mercer	1,176	1,071	105	22
Morton	4,161	3,524	247	50
Mountrail	3,003	2,324	124	22
Nelson	3,549	2,757	144	32
Oliver	1,470	1,200	84	8
Pembina	4,574	3,724	145	54
Pierce	3,371	2,581	170	30
Ramsey	3,497	2,649	138	19
Ransom	2,215	2,048	80	23
Richland	4,468	3,831	138	52
Rolette	2,405	1,809	63	15
Sargent	3,071	2,375	97	37
Sheridan				
Stark	2,605	2,364	150	50
Steele	2,611	1,942	79	14
Stutsman	4,451	3,625	240	46
Towner	3,052	2,159	104	23
Trall	2,577	2,323	65	25
Walsh	6,507	5,409	235	61
Ward	4,629	3,774	173	38
Wells	3,995	3,041	239	47
Williams	4,724	3,540	208	105
Total	144,614	111,793	6,672	1,533

FARM LABOR STATISTICS—1909.

COUNTY	No. Male Employees	Average Wages Per Month	No. Female Employees	Average Wages Per Month	Total Wages Paid During Year
Adams	149	\$ 30.00	19	\$ 15.00	\$ 28,168.00
Barnes	1,545	32.00	323	18.00	644,906.00
Benson	1,087	32.37	184	15.81	427,383.00
Billings	198	27.00	32	20.00	131,104.00
Bottineau	1,555	35.00	371	16.00	620,644.00
Bowman	110	35.00	12	16.00	8,162.00
Burleigh	408	36.63	76	19.30	68,694.00
Cass	1,759	33.32	458	21.19	978,440.00
Cavaller	1,170	39.97	173	20.34	252,478.35
Dickey	656	33.61	74	17.16	169,325.00
Dunn	195	24.38	23	13.56	34,063.00
Eddy	388	25.33	60	14.30	114,285.00
Emmons	281	26.32	26	12.96	47,396.00
Foster	796	36.06	100	20.65	166,929.00
Grand Forks	2,641	33.00	541	20.00	709,469.00
Griggs	703	36.90	162	21.23	303,061.00
Hettinger	275	35.40	83	12.21	34,270.00
Kidder	236	30.00	22	15.00	88,920.00
LaMoure	1,090	35.00	141	20.00	363,364.96
Logan	247	30.97	46	17.39	45,604.00
McHenry	1,085	33.00	168	18.00	253,567.00
McIntosh	110	22.50	10	12.00	31,940.00
McKenzie	250	34.83	32	22.56	42,401.00
McLean	540	17.00	54	18.42	78,404.00
Mercer	80	22.00	22	12.00	20,911.00
Morton	1,964	30.00	32	15.00	91,768.00
Mountrail	398	35.00	37	20.00	62,634.00
Nelson	1,055	33.65	307	16.93	
Oliver	76	23.81	11	15.09	13,956.00
Pembina	1,284	32.00	261	17.00	341,256.00
Pierce	690	23.34	95	20.11	225,704.00
Ramsey	1,160	34.50	276	20.00	390,487.00
Ransom	739	.....	156	.....	237,084.00
Richland	1,078	30.00	160	15.00	415,677.00
Rolette	967	15.13	95	21.25	18,314.70
Sargent	819	30.00	246	18.00	28,998.00
Sheridan .....	.....	.....	.....	.....	.....
Stark	264	27.50	180	15.00	74,737.00
Steele	1,107	19.92	326	17.14	452,687.00
Stutsman	1,191	29.00	176	17.33	301,202.00
Towner	1,189	45.00	234	30.00	375,477.00
Traill	954	32.00	367	17.00	564,302.00
Walsh	1,572	27.70	263	14.00	464,159.00
Ward	804	35.00	135	16.00	173,869.00
Wells	790	25.32	203	13.22	380,641.00
Williams	1,028	18.31	336	21.00	26,218.25
Total	36,678	.....	7,108	.....	\$10,403,060.26

CREAMERIES, CHEESE FACTORIES AND STATIONS.

COUNTY	Number Creameries	Lbs. Butter Manufactured	No. Cheese Factories	Manufactured Lbs. Cheese	Number of Milk and Cream Stations
Adams .....	.....	.....	.....	.....	.....
Barnes	3	89,941	.....	.....	6
Benson .....	.....	.....	.....	.....	.....
Billings .....	.....	.....	.....	.....	.....
Bottineau .....	.....	.....	.....	.....	.....
Bowman .....	.....	.....	.....	.....	.....
Burleigh	3	214,800	.....	.....	.....
Cass .....	.....	.....	.....	.....	.....
Cavalier .....	.....	.....	.....	.....	.....
Dickey	2	52,000	.....	.....	9
Dunn .....	.....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....	.....
Emmons	2	.....	.....	.....	4
Foster .....	.....	.....	.....	.....	.....
Grand Forks ..	4	202,730	.....	.....	.....
Griggs .....	.....	.....	.....	.....	.....
Hettinger .....	.....	.....	.....	.....	.....
Kidder	2	255,888	.....	.....	.....
LaMoure	1	160,141	.....	.....	.....
Logan	2	154,000	.....	.....	3
McHenry .....	.....	.....	.....	.....	.....
McIntosh	1	18,000	.....	.....	20
McKenzie .....	.....	.....	.....	.....	.....
McLean .....	.....	.....	.....	.....	.....
Mercer .....	.....	.....	.....	.....	.....
Morton	6	351,778	.....	.....	.....
Mountrail	1	12,950	.....	.....	.....
Nelson .....	.....	.....	.....	.....	.....
Oliver .....	.....	.....	.....	.....	.....
Pembina	8	248,716	.....	.....	.....
Pierce	1	.....	.....	.....	.....
Ramsey .....	.....	.....	.....	.....	.....
Ransom	2	.....	.....	.....	6
Rolette .....	.....	.....	1	6,000	.....
Sargent	1	6,075	.....	.....	.....
Sheridan .....	.....	.....	.....	.....	.....
Stark	3	75,000	.....	.....	6
Steele .....	.....	.....	.....	.....	.....
Stutsman	1	17,869	.....	.....	.....
Towner .....	.....	.....	.....	.....	.....
Traill	1	35,595	.....	.....	.....
Walsh	3	.....	.....	.....	.....
Ward	1	21,000	.....	.....	.....
Wells .....	.....	.....	.....	.....	.....
Williams	2	18,000	.....	.....	1
Total	51	2,134,483	.....	6,000	55

ELEVATORS AND WAREHOUSES—1910.

COUNTY	Number Farmers Elevators	Total Capacity	Number Line Elevators	Total Capacity	Number Lumber Yards
Adams .....	.....	.....	4	98,000	9
Barnes	19	650,000	53	1,214,000	24
Benson	11	445,000	51	1,416,000	16
Billings	1	50,000	4	115,000	8
Bottineau	14	446,000	83	2,437,000	28
Bowman .....	.....	.....	4	10,500	4
Burleigh	1	30,000	11	358,000	10
Cass .....	.....	.....	.....	.....	.....
Cavalier	4	220,000	65	2,086,000	22
Dickey	1	30,000	34	924,000	15
Dunn .....	.....	.....	.....	.....	2
Eddy	3	100,000	12	341,000	5
Emmons	1	25,000	19	430,000	12
Foster	6	165,000	20	523,000	8
Grand Forks ...	9	305,000	64	2,258,000	20
Griggs	4	.....	24	.....	10
Hettinger .....	.....	.....	4	152,000	19
Kidder	1	25,000	4	132,000	5
LaMoure	8	320,000	4	1,000,000	22
Logan	3	95,000	15	368,000	6
McHenry	24	610,000	54	1,259,000	18
McIntosh	1	22,000	18	35,000	11
McKenzie .....	.....	.....	.....	.....	2
McLean	5	143,000	41	869,000	18
Mercer .....	.....	.....	4	160,000	.....
Morton	2	6,000	20	500,000	23
Mountrail	5	135,000	8	186,000	10
Nelson	8	320,000	26	885,000	16
Oliver .....	.....	.....	.....	.....	.....
Pembina	8	128,000	59	1,879,000	18
Pierce	6	220,000	16	608,000	6
Ramsey	3	108,000	54	1,792,000	22
Ransom .....	.....	.....	4	160,000	11
Richland	2	65,000	10	182,000	20
Rolette	5	125,000	33	825,000	12
Sargent	5	100,000	35	780,000	22
Sheridan .....	.....	.....	22	400,000	11
Stark	3	25,000	11	25,000	13
Steele	7	315,000	17	595,000	9
Stutsman	7	250,000	37	1,110,000	22
Towner	7	260,000	43	1,571,000	15
Trall	9	380,000	49	1,943,000	14
Walsh	6	.....	83	.....	21
Ward	5	115,000	10	200,000	7
Wells	5	130,000	40	1,010,000	12
Williams	3	90,000	21	597,000	13
Total	212	6,453,000	1,190	31,433,500	591

FLOURING MILLS—1910.

COUNTY	BARRELS		
	Total Number	Daily Capacity	Barrels Milled 1909
Adams	1		
Barnes	1	1,600	295,615
Benson	1	100	1,400
Billings			
Bottineau	2	150	5,060
Bowman	1		
Burleigh	1	200	30,268
Cass			
Cavalier			
Dickey	2	500	46,591
Dunn			
Eddy	1	150	10,000
Emmons	1		
Foster			
Grand Forks	1	700	210,000
Griggs			
Hettinger			
Kidder			
LaMoure	2	125	15,000
Logan			
McHenry	1	75	10,000
McIntosh	2	160	46,500
McKenzie	1	50	2,000
McLean	2	250	14,500
Mercer	1	75	15,000
Morton	5	435	84,242
Mountrail			
Nelson			
Oliver			
Pembina	2	400	33,731
Pierce	1	125	30,243
Ramsey	1	100	10,660
Ransom	1	70	
Richland	1	250	35,000
Rolette	1		
Sargent	3	250	35,000
Sheridan			
Stark	3	425	74,233
Steele	2	225	7,500
Stutsman	1	800	162,756
Towner			
Traill	1	100	
Walsh	3	12,050	163,086
Ward			
Wells	1	150	19,000
Williams	1	200	40,000
Total	48	19,715	1,397,385

RAILROAD LABOR STATISTICS
Reports made by Steam Railroads for the Year Ending June 30, 1910
EMPLOYEES AND SALARIES—GREAT NORTHERN RAILWAY COMPANY.

CLASS	Number June 30	Total No. Days Worked	Total Yearly Compensation	Average Daily Compensation
General Officers	7	2,555	\$ 23,234.65	\$ 9.09
Other Officers	14	4,614	16,440.00	3.56
General Office Clerks	200	67,155	135,654.05	2.02
Station Agents	282	69,557	114,072.75	1.64
Other station men	181	45,521	203,481.10	4.47
Enginemen	213	46,192	132,571.00	2.87
Firemen	226	39,711	169,567.60	4.27
Conductors	539	73,057	194,331.95	2.66
Other trainmen	145	17,211	70,910.10	4.12
Machinists	59	15,490	43,062.65	2.78
Carpenters	732	154,152	329,886.05	2.14
Other shopmen	235	79,013	157,235.80	1.99
Section foremen	4,566	773,634	1,245,551.05	1.61
Other trackmen	28	6,068	12,410.95	2.05
Switch tenders, crossing tenders and watchmen	138	34,789	89,408.35	2.57
Telegraph operators and dispatchers .....	.....	.....	.....	.....
Employees—Account floating equipment .....	.....	.....	.....	.....
All other employees and laborers	292	91,974	183,948.45	2.00
Total (including general officers)	7,857	1,520,693	\$3,121,766.50	\$ 2.05
Less general officers .....	.....	.....	.....	.....
Total (excluding general officers)	7,857	1,520,693	\$3,121,766.50	\$ 2.05

RAILROAD LABOR STATISTICS—Continued.
EMPLOYEES AND SALARIES—NORTHERN PACIFIC RAILWAY COMPANY.

CLASS	Number June 30	Total Number Days Worked	Total Yearly Compensation	Average Daily Compensation
General Officers .....	.....	218	\$ 8,076.00	\$ 37.04
Other Officers	3	1,230	15,672.80	12.74
General Office Clerks	25	9,731	24,631.11	2.53
Station Agents	129	47,403	106,691.52	2.25
Other station men	223	74,398	132,562.36	1.78
Enginemen	147	52,948	282,011.41	5.33
Firemen	147	52,948	186,450.52	3.52
Conductors	137	47,369	194,929.47	4.12
Other trainmen	326	117,724	326,982.83	2.78
Machinists	56	15,275	53,300.88	3.49
Carpenters	173	52,706	140,178.11	2.66
Other shopmen	138	41,635	117,543.80	2.82
Section foremen	212	71,830	143,930.83	2.00
Other trackmen	1,838	415,262	674,858.19	1.63
Switch tenders, crossing tenders and watchmen	17	7,455	13,355.24	1.79
Telegraph operators and dispatchers	143	48,675	115,355.55	2.37
Employees—Account floating equipment .....	.....	.....	.....	.....
All other employees and laborers	503	157,449	311,884.95	1.98
Total (including general officers)	4,217	1,214,256	\$2,848,415.57	\$ 2.35
Less general officers .....	.....	218	8,076.00	37.04
Total (excluding general officers)	4,217	1,214,038	\$2,840,339.57	2.34

RAILROAD LABOR STATISTICS—Continued.
EMPLOYEES AND SALARIES—MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY CO.


CLASS	Number June 30	Total Number Days Worked	Total Yearly Compensation	Average Daily Compensation
General Officers	5	1,932	\$ 41,765.42	\$ 21.07
Other Officers	7	2,398	24,418.48	10.18
General Office Clerks	126	46,054	97,679.95	2.12
Station Agents	96	35,126	71,301.06	2.03
Other station men	128	46,828	70,909.15	1.51
Enginemen	88	28,178	129,313.05	4.59
Firemen	88	28,178	83,441.16	2.96
Conductors	78	24,161	102,639.28	4.25
Other trainmen	203	64,295	151,955.33	2.36
Machinists	41	13,228	37,113.30	2.81
Carpenters	72	22,174	57,592.11	2.60
Other shopmen	33	10,349	28,472.59	2.75
Section foremen	131	47,688	92,436.88	1.94
Other trackmen	381	125,408	195,378.62	1.56
Switch tenders, crossing tenders and watchmen	13	4,784	9,186.19	1.92
Telegraph operators and dispatchers	53	19,747	50,377.83	2.55
Employees—Account floating equipment .....	.....	.....	.....	.....
All other employees and laborers	431	134,487	249,289.84	1.85
Total (including general officers)	1,974	655,065	\$1,493,270.24	\$ 2.28
Less general officers	5	1,982	41,765.42	21.07
Total (excluding general officers)	1,969	653,083	\$1,451,504.82	\$ 2.22

RAILROAD LABOR STATISTICS—Continued.
FARMERS GRAIN & SHIPPING COMPANY RAILWAY.

Number of miles operated in North Dakota, 66.12.

	Number Employed	Wages Per Hour	Maximum Hours Per Day	Average Hours Per Day
Mixed conductors	1	\$.38½	16	11
Mixed brakemen	2	.256	16	11
Freight conductors	1	.385	16	8
Freight brakemen	2	.256	16	8
Engineers	2	.44	16	9½
Firemen	2	.275	16	9½
Switchmen .....	...	...	..	...
Engine wipers .....	...	...	..	...
Trackmen	33	.173	10	10
Machinists .....	...	...	..	...
Machinists' helpers .....	...	...	..	...
Blacksmiths .....	...	...	..	...
Boilermakers .....	...	...	..	...
Car Repairers .....	...	...	..	...
Carpenters .....	...	...	..	...
Telegraph operators	7	.20	13	10
Clerks	1	.20	10	10
Totals	51	\$.2065	11.5	9.9

This report covers from June 30, 1909, to June 30, 1910.



View of Jim Lake



The Roosevelt Jim Lake



Pingree Depot



Starting for the Jim Lake



The boys who furnish the music



ELEVATOR AND WAREHOUSE REPORTS—1910
WHEAT.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	220,943	212,519	7,144	6,470
Barnes	3,496,791	3,456,944	15,485	68,015
Benson	1,904,271	1,911,222	6,141	19,721
Billings	466,779	395,396	3,627	68,015
Bottineau	3,913,035	3,874,482	38,268	20,873
Bowman	131,023	115,677	4,161	857
Burleigh	297,617	249,552	2,137	49,507
Cass	3,962,248	4,017,081	16,407	75,167
Cavalier	2,642,654	2,774,395	428	31,513
Dickey	1,636,681	1,287,794	399,322	12,191
Dunn				
Eddy	745,284	737,275	53	13,297
Emmons	893,631	818,374	70,718	3,371
Foster	710,222	689,327	9,843	19,294
Grand Forks	3,405,722	3,529,883	279	32,895
Griggs	1,146,552	1,061,046	311	18,814
Hettinger	231,417	24,085	32	207,240
Kidder	124,484	126,873	153	5,662
LaMoure	2,416,513	2,437,752	6,811	51,734
Logan	445,651	442,664	423	2,249
McHenry	3,403,556	3,395,239	8,811	18,524
McIntosh	471,227	435,131	25,863	22,897
McKenzie				
McLean	1,882,468	1,785,332	67,778	28,566
Mercer	62,494	61,296		998
Morton	2,309,461	2,140,405	70,482	78,595
Mountrail	844,530	837,545	1,486	3,599
Nelson	1,483,872	1,543,853	201	22,731
Oliver				
Pembina	1,559,481	1,554,293	3,206	28,598
Pierce	1,168,558	1,171,410	50	4,963
Ramsey	3,224,735	3,416,105	47,178	44,271
Ransom	1,050,442	1,030,703	3,029	24,061
Richland	2,040,730	1,942,380	92,979	35,039
Rolette	1,232,080	1,218,779	1,068	16,944
Sargent	1,931,129	1,873,290	3,512	29,998
Sheridan	543,957	487,033	120	2,114
Stark	1,925,259	1,853,043	51,113	22,144
Steele	1,493,667	1,441,616	49,995	6,803
Stutsman	1,953,168	1,863,115	17,383	49,400
Towner	1,960,920	2,028,144	2,756	36,706
Traill	2,681,854	2,710,319	485	37,269
Walsh	2,625,197	2,583,746	809	27,439
Ward	4,598,832	4,538,576	19,920	28,875
Wells	2,176,375	1,852,297	84,966	20,792
Williams	2,442,757	2,448,692	3,948	14,830
Total	73,858,267	72,381,183	1,138,881	1,313,039

DURUM.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	72,045	70,740	1,282	1,720
Barnes	252,097	254,310	.....	9,443
Benson	19,317	19,206	.....	250
Billings	25,346	25,236	.....	55
Bottineau .....	.....	.....	.....	.....
Bowman	42,023	41,293	71	898
Burleigh	630	630	.....	.....
Cass	106,596	96,851	551	1,255
Cavaller .....	.....	.....	.....	.....
Dickey	359,555	351,596	6,170	1,981
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	60,026	60,348	.....	.....
Foster	136,493	140,351	1,636	632
Grand Forks	24,344	23,509	.....	643
Griggs	44,686	42,596	216	1,803
Hettinger	5,377	.....	.....	5,377
Kidder .....	.....	.....	.....	.....
LaMoure	655,224	661,411	4,180	8,642
Logan	51,656	51,445	30	.....
McHenry	30,845	31,885	10	372
McIntosh	15,002	15,003	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	27,304	22,636	3,868	323
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail	3,911	3,919	.....	32
Nelson	64,033	60,409	.....	200
Oliver .....	.....	.....	.....	.....
Pembina	1,349	1,056	.....	246
Pierce	8,855	9,101	.....	.....
Ramsey	1,262	1,275	.....	.....
Ransom	400,377	401,939	255	12,822
Richland	103,862	109,607	.....	1,557
Rolette	4,402	4,421	.....	.....
Sargent	266,336	274,714	98	3,642
Sheridan	700	695	.....	.....
Stark	32,315	30,995	.....	7,370
Steele .....	.....	.....	.....	.....
Stutsman	198,761	194,965	3,425	3,504
Towner	458	385	.....	71
Traill	43,333	42,719	.....	508
Walsh	10,766	11,293	.....	523
Ward	26,116	25,848	.....	113
Wells	64,763	62,616	659	1,668
Williams	19,766	19,291	.....	.....
Total	3,179,931	3,164,294	22,451	65,650

RYE.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams .....	.....	.....	.....	72
Barnes	1,545	1,547	.....	.....
Benson	3,446	3,424	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau	14,183	14,309	.....	.....
Bowman	78	.....	.....	.....
Burleigh	5,198	3,735	989	772
Cass	39,516	41,289	51	2,129
Cavalier	2,398	2,421	.....	.....
Dickey	939	976	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy	4,294	3,153	338	1,112
Emmons	24,435	22,541	717	841
Foster .....	.....	.....	.....	.....
Grand Forks	6,790	8,568	24	142
Griggs	17,865	15,407	.....	942
Hettinger .....	.....	.....	.....	.....
Kidder	10,735	9,410	245	1,354
LaMoure	15,802	15,428	.....	374
Logan	2,588	2,373	.....	200
McHenry	7,615	7,204	.....	200
McIntosh	2,526	2,126	400	.....
McKenzie .....	.....	.....	.....	.....
McLean	5,071	4,399	38	685
Mercer	4,504	4,441	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson	1,450	1,117	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina	12,518	11,674	862	91
Pierce .....	.....	.....	.....	.....
Ramsey	7,752	7,314	563	.....
Ransom	649	662	.....	.....
Richland	37,551	41,362	1,059	285
Rolette	2,714	2,857	.....	.....
Sargent	3,896	3,813	83	.....
Sheridan	1,087	1,095	.....	128
Stark	610	365	237	.....
Steele	1,493	1,518	.....	.....
Stutsman	5,728	4,765	201	85
Towner	423	423	.....	.....
Traill	28,732	34,517	.....	2,355
Walsh	1,015	1,006	115	608
Ward	4,154	3,913	100	106
Wells	20,934	19,892	126	1,107
Williams	1,089	.....	.....	.....
Total	301,323	299,044	6,148	13,588

DURUM.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	72,045	70,740	1,282	1,720
Barnes	252,097	254,310	.....	9,443
Benson	19,317	19,206	.....	250
Billings	25,346	25,236	.....	55
Bottineau .....	.....	.....	.....	.....
Bowman	42,023	41,293	71	898
Burleigh	630	630	.....	.....
Cass	106,596	96,851	551	1,255
Cavalier .....	.....	.....	.....	.....
Dickey	359,555	351,596	6,170	1,981
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	60,026	60,348	.....	.....
Foster	136,493	140,351	1,636	632
Grand Forks	24,344	23,509	.....	643
Griggs	44,686	42,596	216	1,803
Hettinger	5,377	.....	.....	5,377
Kidder .....	.....	.....	.....	.....
LaMoure	655,224	661,411	4,180	8,642
Logan	51,656	51,445	30	.....
McHenry	30,845	31,885	10	372
McIntosh	15,002	15,003	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	27,304	22,636	3,868	323
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail	3,911	3,919	.....	32
Nelson	64,033	60,409	.....	200
Oliver .....	.....	.....	.....	.....
Pembina	1,349	1,056	.....	246
Pierce	8,855	9,101	.....	.....
Ramsey	1,262	1,275	.....	.....
Ransom	400,377	401,939	255	12,822
Richland	103,862	109,607	.....	1,557
Rolette	4,402	4,421	.....	.....
Sargent	266,336	274,714	98	3,642
Sheridan	700	695	.....	.....
Stark	32,315	30,995	.....	7,370
Steele .....	.....	.....	.....	.....
Stutsman	198,761	194,965	3,425	3,504
Towner	458	385	.....	71
Traill	43,333	42,719	.....	508
Walsh	10,766	11,293	.....	523
Ward	26,116	25,848	.....	113
Wells	64,763	62,616	659	1,668
Williams	19,766	19,291	.....	.....
Total	3,179,931	3,164,294	22,451	65,650

R YE.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams .....	.....	.....	.....	72
Barnes	1,545	1,547	.....	.....
Benson	3,446	3,424	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau	14,183	14,309	.....	.....
Bowman	78	.....	.....	.....
Burleigh	5,198	3,735	989	772
Cass	39,516	41,289	51	2,129
Cavaller	2,398	2,421	.....	.....
Dickey	939	976	.....	.....
Dunn .....	.....	.....	.....	.....
Eddy	4,294	3,153	338	1,112
Emmons	24,435	22,541	717	841
Foster .....	.....	.....	.....	.....
Grand Forks	6,790	8,568	24	142
Griggs	17,865	15,407	.....	942
Hettinger .....	.....	.....	.....	.....
Kidder	10,735	9,410	245	1,354
LaMoure	15,802	15,428	.....	374
Logan	2,588	2,373	.....	200
McHenry	7,615	7,204	.....	200
McIntosh	2,526	2,126	400	.....
McKenzie .....	.....	.....	.....	.....
McLean	5,071	4,399	38	685
Mercer	4,504	4,441	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson	1,450	1,117	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina	12,518	11,674	862	91
Pierce .....	.....	.....	.....	.....
Ramsey	7,752	7,314	563	.....
Ransom	649	662	.....	.....
Richland	37,551	41,362	1,059	285
Rolette	2,714	2,857	.....	.....
Sargent	3,896	3,813	83	.....
Sheridan	1,087	1,095	.....	128
Stark	610	365	237	.....
Steele	1,493	1,518	.....	.....
Stutsman	5,728	4,765	201	85
Towner	423	423	.....	.....
Traill	28,732	34,517	.....	2,355
Walsh	1,015	1,006	115	608
Ward	4,154	3,913	100	106
Wells	20,934	19,892	126	1,107
Williams	1,089	.....	.....	.....
Total	301,323	299,044	6,148	13,588

OATS.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	120,667	88,609	27,252	13,701
Barnes	180,598	138,803	26,805	18,182
Benson	96,254	70,443	18,217	9,644
Billings	564,901	538,773	5,726	37,225
Bottineau	603,261	570,732	20,394	23,396
Bowman	160,307	149,439	9,459	7,551
Burleigh	5,030	.....	3,100	2,077
Cavalier	1,069,960	1,141,793	9,992	43,160
Cass	334,509	284,048	39,709	23,476
Dickey	81,896	34,164	37,422	12,687
Dunn .....	.....	.....	.....	.....
Eddy	36,426	15,789	11,387	9,995
Emmons	7,640	4,534	438	2,803
Foster	146,739	127,388	15,495	8,963
Grand Forks	199,781	190,607	8,917	9,920
Griggs	56,583	57,403	5,698	11,037
Hettinger	13,753	7,582	3,894	4,495
Kidder	1,311	.....	584	940
LaMoure	83,372	50,735	17,055	19,463
Logan	3,837	2,546	1,147	108
McHenry	246,612	217,825	26,181	9,168
McIntosh	611	.....	248	363
McKenzie .....	.....	.....	.....	.....
McLean	56,001	45,155	5,818	7,627
Mercer .....	.....	.....	.....	.....
Morton	124,524	98,424	8,927	12,764
Mountrail	102,412	76,715	11,827	14,343
Nelson	42,646	32,938	8,261	2,228
Oliver .....	.....	.....	.....	.....
Pembina	98,414	85,735	9,058	7,066
Pierce	76,284	70,202	1,772	5,559
Ramsey	134,371	107,434	14,535	21,192
Ransom	179,770	149,346	12,550	10,528
Richland	392,599	371,725	3,618	16,404
Rolette	313,787	295,507	6,830	17,322
Sargent	102,133	91,333	12,439	3,187
Sheridan	51,742	21,000	1,428	27,294
Stark	237,139	206,562	6,774	13,530
Steele	165,968	161,515	3,522	4,143
Stutsman	156,235	95,219	39,430	26,070
Towner	181,100	156,774	10,901	19,254
Trall	131,782	117,025	5,972	15,395
Walsh	146,297	120,220	10,904	22,775
Ward	402,095	350,222	39,368	32,429
Wells	125,124	97,618	17,089	13,701
Williams	213,661	166,304	30,436	27,219
Total	7,448,132	6,608,186	550,577	588,384

BARLEY.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	45,095	39,828	2,174	4,797
Barnes	408,595	391,414	15,990	15,452
Benson	229,018	213,966	3,491	11,940
Billings	48,555	44,836	2	2,688
Bottineau	1,020,011	1,004,904	3,537	7,133
Bowman	37,118	35,737	919	938
Burleigh	3,553	2,563	291	752
Cass	638,143	626,780	8,528	15,260
Cavalier	877,744	930,813	2,251	22,316
Dickey	579,353	562,353	11,284	8,576
Dunn	40,582	32,863	4,758	4,359
Eddy	35,412	35,031	.....	724
Emmons	203,513	196,188	3,995	5,943
Foster	694,515	731,449	1,635	7,641
Grand Forks	223,102	196,929	565	6,481
Griggs	1,344	1,315	35	.....
Hettinger	10,981	10,567	204	282
Kidder	643,357	651,540	3,931	11,679
LaMoure	40,223	40,024	777	437
Logan	125,774	119,964	6,369	3,318
McHenry	25,863	22,897	1,100	242
McIntosh . . . . .	.....	.....	.....	.....
McKenzie	24,242	21,255	1,634	1,563
McLean . . . . .	.....	.....	.....	.....
Mercer	3,620	1,300	452	1,867
Morton	9,902	6,811	1,316	1,181
Mountrail	204,005	241,641	1,530	9,045
Nelson . . . . .	.....	.....	.....	.....
Oliver	677,778	677,019	3,870	10,017
Pembina	187,440	176,254	306	1,846
Pierce	456,379	529,032	10,576	11,586
Ramsey	143,217	138,921	3,646	8,849
Ransom	475,322	471,913	940	11,024
Richland	346,237	326,272	2,956	4,899
Rolette	320,552	309,994	696	4,255
Sargent	14,219	9,162	255	2,680
Sheridan	16,750	15,871	144	557
Stark	298,468	294,676	1,424	3,724
Steele	333,718	334,304	4,291	9,069
Stutsman	603,137	613,424	2,781	12,955
Towner	330,196	329,520	2,288	14,729
Traill	561,939	557,326	1,582	11,331
Walsh	149,489	79,588	14,029	5,654
Ward	258,128	249,847	2,679	4,069
Wells	14,939	11,616	784	1,698
Williams . . . . .	.....	.....	.....	.....
Total	11,361,528	11,287,827	130,309	263,556

FLAX.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	75,079	71,309	9,711	329
Barnes	403,530	391,656	2,325	5,373
Benson	140,555	137,892	1,682	1,120
Billings	352,265	350,056	1,543	1,875
Bottineau	346,829	339,882	2,544	962
Bowman	111,038	105,710	6,476	186
Burleigh	110,310	109,996	696	113
Cass	183,811	183,352	1,975	2,820
Cavalier	54,016	36,934	536	930
Dickey	416,814	404,334	9,017	2,075
Dunn . . . . .	.....	.....	.....	.....
Eddy	66,737	62,006	377	2,114
Emmons	208,375	175,460	11,189	20
Foster	65,498	65,291	4,224	893
Grand Forks	185,894	189,768	380	1,501
Griggs	101,008	94,992	834	228
Hettinger	21,037	19,737	141	6,447
Kidder	99,075	96,671	398	3,633
LaMoure	522,590	486,757	4,212	5,704
Logan	257,439	254,601	1,312	63
McHenry	165,386	164,022	1,093	1,215
McIntosh	137,609	136,298	654	.....
McKenzie . . . . .	.....	.....	.....	.....
McLean	517,688	490,282	1,553	4,847
Mercer . . . . .	.....	.....	.....	.....
Morton	278,027	272,277	814	3,886
Mountrail	155,500	151,539	2,099	1,136
Nelson	89,844	88,955	275	1,377
Oliver . . . . .	.....	.....	.....	.....
Pembina	80,994	78,877	2,443	869
Pierce	37,811	36,991	384	408
Ramsey	151,508	162,812	1,643	2,054
Ransom	98,169	97,156	677	117
Richland	140,721	138,578	458	1,443
Rolette	57,420	54,015	1,295	1,065
Sargent	350,052	339,802	3,281	1,246
Sheridan	79,746	70,544	216	330
Stark	229,230	222,720	2,384	2,759
Steele	122,908	121,780	867	790
Stutsman	513,500	502,310	2,883	4,765
Towner	103,627	101,706	676	2,733
Traill	117,699	111,131	1,035	1,551
Walsh	149,627	146,962	807	1,435
Ward	458,354	435,702	5,103	3,590
Wells	215,343	211,200	1,582	409
Williams	261,957	236,381	835	4,244
Total	8,211,516	8,023,012	92,623	78,655

CORN.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	1,538	.....	1,345	.....
Barnes	2,208	.....	2,208	.....
Benson .....	.....	.....	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau	1,000	.....	1,000	.....
Bowman .....	.....	.....	.....	.....
Burleigh	1,100	.....	400	700
Cass .....	.....	.....	.....	.....
Cavalier	1,440	.....	1,128	320
Dickey	10,863	.....	10,463	.....
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	416	.....	.....	316
Foster .....	.....	.....	.....	.....
Grand Forks	607	.....	607	.....
Griggs .....	.....	.....	.....	.....
Hettinger .....	.....	.....	174	259
Kidder .....	.....	.....	.....	.....
LaMoure	1,400	.....	.....	1,440
Logan .....	.....	.....	.....	.....
McHenry	590	.....	.....	590
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean	4,112	.....	3,960	150
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson	491	.....	557	.....
Oliver .....	.....	.....	.....	.....
Pembina	723	.....	462	248
Pierce .....	.....	.....	.....	.....
Ramsey	4,367	.....	3,749	629
Ransom .....	.....	.....	.....	.....
Richland	942	635	252	.....
Rolette .....	.....	.....	.....	.....
Sargent .....	.....	.....	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele	1,464	.....	1,464	.....
Stutsman .....	.....	.....	.....	.....
Towner	826	.....	810	.....
Traill .....	.....	.....	.....	.....
Walsh	50	.....	50	.....
Ward .....	.....	1,593	.....	.....
Wells	1,117	.....	.....	.....
Williams .....	.....	.....	.....	.....
Total	35,254	2,228	28,629	4,652

SPELTZ.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	64,841	43,916	947	.....
Barnes	7,580	.....	7,620	.....
Benson .....	.....	.....	.....	.....
Billings	132,445	130,640	275	.....
Bottineau	161	104	57	.....
Bowman	300	.....	300	.....
Burleigh	150	.....	150	.....
Cass .....	.....	.....	.....	.....
Cavaller	814	814	.....	.....
Dicky	5,826	1,362	3,673	1,526
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	200	.....	200	.....
Foster .....	.....	.....	.....	.....
Grand Forks .....	.....	.....	.....	.....
Griggs .....	.....	.....	.....	.....
Hettinger .....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....
LaMoure	128	.....	85	30
Logan .....	.....	.....	.....	.....
McHenry .....	.....	.....	.....	.....
McIntosh	1,800	800	950	50
McKenzie .....	.....	.....	.....	.....
McLean	323	.....	323	.....
Mercer .....	.....	.....	.....	.....
Morton	65	65	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson .....	.....	.....	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina .....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....
Ramsey	189	.....	.....	.....
Ransom .....	.....	.....	.....	.....
Richland	1,170	.....	1,172	.....
Rolette	561	.....	117	.....
Sargent	202	202	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele .....	.....	.....	.....	.....
Stutsman .....	.....	.....	.....	.....
Towner	1,076	.....	426	650
Traill .....	.....	.....	.....	.....
Walsh .....	.....	.....	.....	.....
Ward	107	82	.....	.....
Wells	300	.....	.....	300
Williams	708	507	200	.....
Total	218,946	178,492	16,495	2,556

MILLET SEED.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams .....	.....	.....	.....	.....
Barnes .....	.....	.....	.....	.....
Benson .....	.....	.....	.....	.....
Billings	6,250	6,300	.....	.....
Bottineau .....	.....	.....	.....	.....
Bowman .....	.....	.....	.....	.....
Burleigh .....	.....	.....	.....	.....
Cass	40	.....	37	3
Cavalier .....	.....	.....	.....	.....
Dickey .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons .....	.....	.....	.....	.....
Foster .....	.....	.....	.....	.....
Grand Forks .....	.....	.....	.....	.....
Griggs .....	.....	.....	.....	.....
Hettinger .....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....
LaMouse .....	.....	.....	.....	.....
Logan .....	.....	.....	.....	.....
McHenry	38	.....	.....	43
McIntosh .....	.....	.....	.....	.....
McKenzie .....	.....	.....	.....	.....
McLean .....	.....	.....	.....	.....
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson .....	.....	.....	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina .....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....
Ramsey .....	.....	.....	.....	.....
Ransom	1,612	1,612	.....	.....
Richland	147	147	.....	.....
Rolette .....	.....	.....	.....	.....
Sargent	67	75	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele .....	.....	.....	.....	.....
Stutsman .....	.....	.....	.....	.....
Towner .....	.....	.....	.....	.....
Traill	45	.....	40	5
Wash	18	.....	18	.....
Ward .....	.....	.....	.....	.....
Wells	361	.....	311	50
Williams .....	.....	.....	.....	.....
Total	8,578	8,134	406	101

CLOVER.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass	35	.....	35	.....
Cavallier
Dickey
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMouse
Logan
McHenry
McIntosh
McKenzie
McLean
Oliver
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh	26	.....	26	.....
Ward
Wells
Williams
Total	61	.....	61	.....

TIMOTHY.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass	965	1,012	.....	.....
Dickey
Cavalier
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMouse
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina	103	112	.....	.....
Pierce
Ramsey
Ransom
Richland	370	387	.....	.....
Rolette
Sargent	224	241	.....	.....
Sheridan
Stark
Steele
Stutsman
Towner
Trall
Walsh	30	.....	30	.....
Ward
Wells	60	.....	5	55
Williams
Total	1,752	1,752	35	55

HUNGARIAN.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass
Cavallier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMouse
Logan
McHenry	10,984	10,500	.....	484
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh	15	.....	15	.....
Ward
Wells
Williams
Total	10,999	10,500	15	484

BROME GRASS.

COUNTY	Bought	Shippeu	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent	444	435	.....	.....
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh
Ward
Wells	768	764	.....	.....
Williams
Total	1,212	1,199	.....	.....

HAY.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings	10	10	.....	.....
Bottineau
Burleigh
Cass
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure
Logan
McHenry
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh
Ward
Wells
Williams
Total	10	10	.....	.....

RAILROAD STATION AGENTS' REPORTS—1910

County	Wheat	Oats	Barley	Flax
Adams .....	.....	.....	.....	.....
Barnes	850,925	14,449	61,845	70,431
Benson	139,675	6,719	16,933	5,230
Billings .....	.....	.....	.....	.....
Bottineau	82,679	10,355	14,473	766
Bowman .....	.....	.....	.....	.....
Burleigh	33,394	1,580	1,200	5,952
Cass	392,216	23,754	81,451	12,900
Cavalier	57,056	3,750	14,300	.....
Dickey	5,952	.....	.....	5,445
Dunn .....	.....	.....	.....	.....
Eddy	1,335	.....	.....	.....
Emmons	379,837	16	8,278	34,520
Foster	603,569	127,419	128,765	77,172
Grand Forks	65	8,402	25,815	.....
Griggs	156,411	8,000	34,708	13,000
Hettinger .....	.....	.....	.....	.....
Kidder	1,466	3	600	50
LaMoure	1,450,585	6,461	175,195	191,869
Logan	178,040	3,546	14,835	87,864
McHenry	3,880	.....	.....	.....
McIntosh	11,411	.....	3,149	.....
McKenzie .....	.....	.....	.....	.....
McLean	466,277	7,103	6,720	134,752
Mercer .....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....
Mountrail	2,970	.....	.....	.....
Nelson .....	.....	.....	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina	85,481	2,974	45,563	9,147
Pierce .....	.....	.....	.....	.....
Ramsey .....	.....	.....	.....	.....
Ransom	43,284	5,550	5,766	4,309
Richland	202,924	159,547	89,002	18,499
Rolette	300,000	.....	.....	.....
Sargent	379,090	22,406	86,661	69,782
Sheridan	4,000	3,000	.....	1,000
Stark .....	.....	.....	.....	.....
Steele .....	.....	.....	.....	.....
Stutsman	55,371	1,300	7,179	3,701
Towner	2,000	.....	.....	.....
Traill .....	.....	.....	.....	.....
Walsh	265,014	12,271	96,600	22,512
Ward	22,029	26,266	8,000	75,866
Wells	68,820	12,120	14,506	6,700
Williams .....	.....	.....	.....	.....
Total	6,945,756	466,991	941,544	851,467

RAILROAD STATION AGENTS' REPORTS—Continued.

	Rye	Corn	Speltz	Hay
Adams				
Barnes	1,550			
Benson				
Billings				
Bottineau				
Bowman				
Burleigh		700		903
Cass	21,357	4,243	161	86
Cavalier				
Dickey				35
Dunn				
Eddy				
Emmons	2,612		5	
Foster	23,286			
Grand Forks	704	401		
Griggs		1,333		104
Hettinger				
Kidder		2	53	
LaMoure			138	
Logan	1,503			
McHenry				121
McIntosh				
McKenzie				
McLean	22	42		30
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina	9,177			59
Pierce				
Ramsey				
Ransom				212
Richland	22,207	7,700		
Rolette				
Sargent				41
Sheridan				
Stark				
Steele				
Stutsman	916			181
Trall				
Towner				
Walsh	2,945			
Ward				83
Wells	1,600			
Williams				
Total	87,909	14,461	357	1,855

RAILROAD STATION AGENTS' REPORTS—Continued.

County	Potatoes	Clover	Timothy	Brome Grass
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass	4,550	.....	.....	2,500
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks	115	40	141
Griggs
Hettinger
Kidder	1	4,000
LaMoure
Logan
McHenry
McIntosh
McKenzie
McLean	38	.....
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina	4,009	.....	.....	.....
Pierce
Ramsey
Ransom	60	.....
Richland	800	.....
Rolette
Sargent	824	.....
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh
Ward
Wells
Williams
Total	8,559	115	1,763	6,641

RAILROAD STATION AGENTS' REPORTS—Continued.

County	Durum	Alfalfa	Millet Seed
Adams			
Barnes			
Benson			
Billings			
Bottineau			
Bowman			
Burleigh		600	205
Cass			
Cavaller			
Dickey			
Dunn			
Eddy			
Emmons			
Foster			
Grand Forks			1,327
Griggs			
Hettinger			
Kidder			
LaMoure	73,936		
Logan			
McHenry			
McIntosh			
McKenzie			
McLean			
Mercer			
Morton			
Mountrail			
Nelson			
Oliver			
Pembina			
Pierce			
Ramsey			
Ransom			
Richland			
Rolette			
Sargent		487	
Sheridan			
Stark			
Steele			
Stutsman			112
Towner			
Traill			
Waish			
Ward			
Wells			
Williams			
Total	73,936	1,087	1,644

Up to the year 1909 there has been no compilation of statistics relating to manufacturing industries and labor organizations of the state, development up to that time having proceeded almost entirely along agricultural lines.

Of late years, however, so marked a change has been apparent and industrial enterprises have grown at so rapid a rate that it is now necessary to give them official recognition by the collection and tabulation of figures relating to their condition. Such work is always difficult to inaugurate and reliable information hard to procure from those interested. Hence, though it is probable that a conservative estimate would place the value of manufactured articles in North Dakota at \$10,000, the statistics offered in this first report will not come up to that figure.

Past experience in other directions justifies the assertion that this condition will soon be remedied as manufacturers come to realize more fully the practical value of accurate industrial information.

Statistics concerning labor other than that performed on farms and railway labor statistics are included in this report for the first time.

INDUSTRIAL

INDUSTRY	NAME OF FIRM OR CORPORATION	Location	Sex	Employees Over 21
Milling.....	Russell-Miller Milling Co.....	Bismarck..	Male.....	6
Milling.....	Russell-Miller Milling Co.....	Mandan..	Male.....	23
Milling.....	Russell-Miller Milling Co.....	Jamestown..	Male.....	40
Milling.....	Fargo Mill Co.....	Fargo.....	Male.....	5
Milling.....	Chaffee-Miller Co.....	Casselton..	Male.....	21
Milling.....	Chaffee-Miller Co.....	Casselton..	Male.....	1
Steam Laundry.....	Bismarck Steam Laundry.....	Bismarck..	Male.....	7
Steam Laundry.....	Bismarck Steam Laundry.....	Bismarck..	Male.....	1
Steam Laundry.....	Bismarck Steam Laundry.....	Bismarck..	Female.....	11
Steam Laundry.....	Bismarck Steam Laundry.....	Bismarck..	Female.....	1
Steam Laundry.....	Northwestern Laundry.....	Mandan..	Male.....	1
Steam Laundry.....	Northwestern Laundry.....	Mandan..	Male.....	1
Steam Laundry.....	Northwestern Laundry.....	Mandan..	Female.....	4
Steam Laundry.....	Northwestern Laundry.....	Mandan..	Female.....	1
Steam Laundry.....	Northwestern Laundry.....	Bismarck..	Male.....	3
Steam Laundry.....	Northwestern Laundry.....	Bismarck..	Female.....	4
Steam Laundry.....	Northwestern Laundry.....	Bismarck..	Female.....	1
Cigar Manufacturing.....	J. A. Wright.....	Casselton..	Male.....	4
Cigar Manufacturing.....	J. A. Wright.....	Casselton..	Female.....	1
Marble & Granite Mfg.....	Fargo Marble & Granite Works.....	Fargo.....	Male.....	4
Marble & Granite Mfg.....	Fargo Marble & Granite Works.....	Fargo.....	Male.....	1
Artificial Stone.....	Rodand & Moody.....	Casselton..	Male.....	4
Artificial Stone.....	N. D. Eng. & Const. Co.....	Fargo.....	Male.....	7
Artificial Stone.....	N. D. Eng. & Const. Co.....	Fargo.....	Male.....	1
Mattress Mfg., etc.....	McHose & Pardoe.....	Fargo.....	Male.....	8
Mattress Mfg., etc.....	McHose & Pardoe.....	Fargo.....	Male.....	1
Mattress Mfg., etc.....	McHose & Pardoe.....	Fargo.....	Female.....	2
Mattress Mfg., etc.....	McHose & Pardoe.....	Fargo.....	Female.....	1
Newspaper & Printing.....	S. A. Young.....	Mandan..	Male.....	1
Newspaper & Printing.....	S. A. Young.....	Mandan..	Female.....	1
Newspaper & Printing.....	S. A. Young.....	Mandan..	Female.....	1
Newspaper & Printing.....	W. R. Kellogg.....	Jamestown..	Male.....	6
Newspaper & Printing.....	W. R. Kellogg.....	Jamestown..	Male.....	1
Newspaper & Printing.....	W. R. Kellogg.....	Jamestown..	Female.....	1
Newspaper & Printing.....	Potter & Potter.....	Casselton..	Male.....	4
Newspaper & Printing.....	Palladium Pub. Co.....	Bismarck..	Male.....	2
Newspaper & Printing.....	Palladium Pub. Co.....	Bismarck..	Male.....	1
Newspaper & Printing.....	Palladium Pub. Co.....	Bismarck..	Male.....	1
Newspaper & Printing.....	Palladium Pub. Co.....	Bismarck..	Female.....	1
Carbonated Beverages.....	Capitol City Bottling Works.....	Bismarck..	Male.....	5
Carbonated Beverages.....	Capitol City Bottling Works.....	Bismarck..	Male.....	1
Carbonated Beverages.....	Capitol City Bottling Works.....	Bismarck..	Female.....	1
Concrete Block Mfg.....	Crescent Pressed Brick & Tile Co.....	Mandan..	Male.....	5

STATISTICS.

Employees Over 16 and Under 21	Employees Over 14 and Under 16	Maximum Hours Per Day	Average Hours Per Day	Average Daily Wages	KIND OF LABOR USED	Effect of Machinery on Hand Work	Capital Invested	Value of Goods Manufactured
		10	10	\$3.35	Hand & Machinery	Reduced 15 per cent.	\$ 75,000	.....
		10	10	2.20	Machinery	.....	
		24	10	2.51	Hand & Machinery	None	275,000	\$1,050,828
		24	10	2.00	Machinery	.....	25,000	178,000
		10	10	2.55	Hand & Machinery	.....	180,000	832,061
		10	10	.....	.....	.....	.....	.....
		10	10	3.00	Hand & Machinery	None	10,000	31,200
		10	10	2.00	.....	.....	.....	.....
		10	10	1.40	.....	.....	.....	.....
		10	10	1.25	.....	.....	.....	.....
		10	10	2.70	Hand & Machinery	.....	5,000	.....
		10	10	1.35	.....	.....	.....	.....
		10	10	1.50	.....	.....	.....	.....
		10	10	1.15	.....	.....	.....	.....
		10	10	2.25	Hand & Machinery	.....	3,500	.....
		10	10	1.50	.....	.....	.....	.....
		10	10	1.80	.....	.....	.....	.....
		8	8	3.50	Hand	.....	4,000	10,000
		8	8	3.50	.....	.....	.....	.....
		10	10	3.00	Hand & Machinery	Reduced cost 50 per cent.	27,295	56,500
		10	10	1.50	.....	.....	.....	.....
		10	10	2.50	Hand	.....	2,500	4,000
		10	10	2.35	Hand & Machinery	None	7,500	22,000
		10	10	1.50	Hand & Machinery	None	7,500	22,000
		9	9	2.33	Machinery	None	41,500	60,000
		9	9	1.50	.....	.....	.....	.....
		9	9	1.68	.....	.....	.....	.....
		9	9	1.00	.....	.....	.....	.....
		9	9	2.50	Hand & Machinery	None	7,300	10,000
		9	9	2.00	.....	.....	.....	.....
		9	9	2.00	.....	.....	.....	.....
		8 1/2	8	2.90	Hand & Machinery	Typesetting red cost 2/309	10,000	18,000
		8 1/2	8	1.75	.....	.....	.....	.....
		8	8	1.50	.....	.....	.....	.....
		9	9	2.00	Hand & Machinery	None	6,000	2,500
		8	8	3.00	Hand & Machinery	None	5,000	9,000
		8	8	2.00	.....	.....	.....	.....
		8	8	2.45	.....	.....	.....	.....
		8	8	3.00	.....	.....	.....	.....
		10	10	2.00	Machinery	.....	25,000	35,000
		10	10	2.00	.....	.....	.....	.....
		8	8	2.00	.....	.....	.....	.....
		10	10	2.60	Machinery	.....	7,000	10,000

SPELTZ.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams	64,841	43,916	947	.....
Barnes	7,580	.....	7,620	.....
Benson .....	.....	.....	.....	.....
Billings	132,445	130,640	275	.....
Bottineau	161	104	57	.....
Bowman	300	.....	300	.....
Burleigh	150	.....	150	.....
Cass .....	.....	.....	.....	.....
Cavaller	814	814	.....	.....
Dicky	5,826	1,362	3,673	1,526
Dunn .....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....
Emmons	200	.....	200	.....
Foster .....	.....	.....	.....	.....
Grand Forks .....	.....	.....	.....	.....
Griggs .....	.....	.....	.....	.....
Hettinger .....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....
LaMoure	128	.....	85	30
Logan .....	.....	.....	.....	.....
McHenry .....	.....	.....	.....	.....
McIntosh	1,800	800	950	50
McKenzie .....	.....	.....	.....	.....
McLean	323	.....	323	.....
Mercer .....	.....	.....	.....	.....
Morton	65	65	.....	.....
Mountrail .....	.....	.....	.....	.....
Nelson .....	.....	.....	.....	.....
Oliver .....	.....	.....	.....	.....
Pembina .....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....
Ramsey	189	.....	.....	.....
Ransom .....	.....	.....	.....	.....
Richland	1,170	.....	1,172	.....
Rolette	561	.....	117	.....
Sargent	202	202	.....	.....
Sheridan .....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....
Steele .....	.....	.....	.....	.....
Stutsman .....	.....	.....	.....	.....
Towner	1,076	.....	426	650
Traill .....	.....	.....	.....	.....
Walsh .....	.....	.....	.....	.....
Ward	107	82	.....	.....
Wells	300	.....	.....	300
Williams	708	507	200	.....
Total	218,946	178,492	16,495	2,556

MILLET SEED.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings	6,250	6,300		
Bottineau				
Bowman				
Burleigh				
Cass	40		37	3
Cavaller				
Dickey				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMouse				
Logan				
McHenry	38			43
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom	1,612	1,612		
Richland	147	147		
Rolette				
Sargent	67	75		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill	45		40	5
Wash	18		18	
Ward				
Wells	361		311	50
Williams				
Total	8,578	8,134	406	101

CLOVER.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass	35	.....	35	.....
Cavalier
Dickey
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMouse
Logan
McHenry
McIntosh
McKenzie
McLean
Oliver
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh	26	.....	26	.....
Ward
Wells
Williams
Total	61	.....	61	.....

TIMOTHY.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burleigh				
Cass	965	1,012		
Dickey				
Cavalier				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMouse				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina	103	112		
Pierce				
Ramsey				
Ransom				
Richland	370	387		
Rolette				
Sargent	224	241		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill				
Walsh	30		30	
Ward				
Wells	60		5	55
Williams				
Total	1,752	1,752	35	55

HUNGARIAN.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burleigh
Cass
Cavalier
Dickey
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMouse
Logan
McHenry	10,984	10,500	.....	484
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh	15	.....	15	.....
Ward
Wells
Williams
Total	10,999	10,500	15	484

BROME GRASS.

COUNTY	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burlleigh				
Cass				
Cavalier				
Dickey				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Richland				
Rolette				
Sargent	444	435		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trail				
Walsh				
Ward				
Wells	768	764		
Williams				
Total	1,212	1,199		

COAL MINE STATISTICS.

Coal Mine License. How Procured. The operator of each and every coal mine operated in the state of North Dakota, and selling coal to the general public, shall annually, on or before the tenth day of July, after the passage and approval of this act, procure a license from the Commissioner of Agriculture and Labor, for which he shall pay a fee of five dollars.

Statistics to be Furnished. There shall be kept in a book to be provided for that purpose, at each mine operated and selling coal to the general public, the following information: Name of the mine; its location; when it began business; by whom owned; by whom operated; number of tons of coal mined; number of men employed; wages paid by the day, week, month and year; the total cost of operating the mine; the total amount of coal sold, and the price received therefor, and such other statistical information as the Commissioner of Agriculture and Labor may prescribe, to be kept by such mine, under the provisions of section 127 of the revised codes of 1905; provided, that when the report of any operator of a coal mine in this state shows that the output of his mine has not been more than five hundred tons of coal for the year, the five dollars paid as license shall be returned to such operator.

Report of Commissioner of Agriculture. It shall be the duty of all persons operating mines within this state, as provided in sections one and two of this act, to make verified report to the Commissioner of Agriculture and Labor, containing all the information to be kept by said mine operator, as provided in section two of this act together with such further information as the Commissioner of Agriculture and Labor may require under the provisions of section 127 of the revised codes of 1905.

Penalty for Failure to Comply with Law. Every mine owner and operator who shall operate any coal mine without first procuring the license herein provided for, or who shall wilfully fail, neglect or refuse to comply with the provisions of this act, shall be deemed guilty of a misdemeanor, and on conviction thereof, shall be subject to a fine of one hundred dollars, or imprisonment in the county jail not exceeding thirty days, or both such fine and imprisonment, as the court may determine.

COAL MINES REPORTED AND LICENSED

For Period Ending

June, 1909, and June, 1910, Respectively.

Lic. No.	NAME	Location	DATE	
			Issued	Expired
47	Headlight Coal Mine.....	31-131-92	8-20-08	7-09
52	Sheep Creek Coal Mine.....	23-131-92	9-24-08	7-09
53	Spring Butte Coal Mine.....	4-130-92	10- 3-08	7-09
1	Spring Butte Coal Mine.....	4-130-92	6- 1-10	7-10
87	Clermont Coal Mine.....	16-129-94	5- 2-10	7-10
7	Haynes Coal Association.....	9-129-94	6-24-10	7-10
4	Monroe Coal Mine.....	16-129-94	6- 1-10	7-10
7	Haynes Coal Association.....	9-129-94	6-23-10	7-10
54	Lombard Coal Mine.....	9-132-102	10-26-08	7-09
68	Lombard Coal Mine.....	9-132-102	8-10-09	7-10
77	Scranton Coal Mine.....	24-131-100	9-28-09	7-10
45	Washburn Lignite Coal Co.....	1-142-80	7-28-08	7-09
64	Washburn Lignite Coal Co.....	1-142-80	7-30-09	7-10
50	Ylengst Coal Mine.....	34-142-72	9-23-08	7-09
73	Ylengst Coal Mine.....	34-142-72	9-13-09	7-10
86	Ecklund Coal Mine.....	8-142-79	9-13-09	7-10
49	Watkins Coal Mine.....	3-141-79	9-19-08	7-09
48	Peterson Coal Mine.....	9-142-79	8-29-08	7-09
92	Peterson Coal Mine.....	9-142-79	5- 9-10	7-10
84	Parsons Coal Mine.....	.....	11-19-09	7-10
5	Lind Coal Mine.....	6-142-79	6- 2-10	7-10
56	Parkhurst Coal Mine.....	9-135-78	2-15-09	7-09
85	Parkhurst Coal Mine.....	9-135-78	2-11-10	7-10
51	Half-Way Coal Mine.....	34-132-93	9-24-08	7-09
65	Schafer Coal Mine.....	24-150-98	7-30-09	7-10
40	Giddings Knowles.....	26-152-81	7-17-08	7-10
78	Giddings Knowles.....	26-152-81	10- 1-09	7-10
93	Satterlund Coal Mine.....	6-145-82	5- 9-10	7-10
80	Blake Coal Mine.....	12-155-92	10-19-09	7-10
90	Papke Coal Mine.....	9-154-91	5- 4-10	7-10
33	Diamond Coal Mine.....	.....	7-10-08	7-09
70	Hebron Fire & Pressed Brick Co ...	11-140-90	8-18-09	7-10
82	Tripp & Kiebert.....	25-142-84	11-13-09	7-10
6	North Star Mine.....	3-140-90	6- 7-10	7-10
29	Pinto Coal Mine.....	32-143-85	7- 8-08	7-09
67	Pinto Coal Mine.....	32-143-85	8- 2-09	7-10
66	Pleasant Valley Coal Mine.....	8-142-84	7- 2-09	7-10
83	Meihoff & Klatt.....	2-141-84	11-13-09	7-10
42	Lehigh Coal Mine.....	8-139-95	7-20-08	7-09
75	Lehigh Coal Mine.....	8-139-95	7-20-09	7-10
32	Zenith Coal Mine.....	6-139-98	7-10-08	7-09
57	Zenith Coal Mine.....	6-139-98	7-15-09	7-10
9	Dickinson Brick Co.....	7-139-95	6-24-10	7-10
43	Mammoth Spring Coal Mine.....	27-153-82	7-22-08	7-09
72	Mammoth Spring Coal Mine.....	27-153-82	9-13-09	7-10
38	Strong Coal Mine.....	21-152-81	7-13-08	7-09
59	Strong Coal Mine.....	21-152-81	7-19-09	7-10
44	Smith Dry Coal Mine.....	.....	7- 5-08	7-10
58	Smith Dry Coal Mine.....	.....	7-19-09	7-10

COAL MINES—Continued.

Lic. No.	NAME	Location	DATE	
			Issued	Expired
36	Baden Coal Mine.....	26-159-88	7-11-08	7-09
60	Baden Coal Mine.....	26-159-88	7-21-09	7-10
31	Domress Coal Mine.....	24-162-94	7-10-08	7-09
62	Domrese Coal Mine.....	24-162-94	7-23-09	7-10
41	White Earth Coal Mine.....	15-156-94	7-20-08	7-10
100	White Earth Coal Mine.....	15-156-94	5-25-10	7-10
39	Kenmare Diamond Coal Mine.....	.....	7-14-08	7-10
34	Stafford Land Co.....	15-152-82	7-10-08	7-09
61	Stafford Land Co.....	15-152-82	7-21-09	7-10
35	Hart Coal Mine.....	20-160-88	7-11-08	7-10
69	Hart Coal Mine.....	20-160-88	8-11-09	7-10
30	Farmers' Lignite Mine.....	20-161-88	7- 8-08	7-09
79	Farmers' Lignite Mine.....	20-161-88	10-11-10	7-10
74	Leeson Coal Mine.....	19-162-81	9-17-09	7-10
55	Wasson Coal Mine.....	35-152-81	12- 8-08	7-09
46	MacKee Coal Mine.....	30-164-93	8-10-08	7-09
63	Mackee Coal Mine	30-164-93	7-26-09	7-10
37	Paradise Mining Co.....	.....	7-11-08	7-09
71	Kenmare Brick & Coal Co.....	32-160-88	9- 1-09	7-10
76	Murray Coal Mine.....	27-152-81	9-28-09	7-10
81	Walker Coal Mine.....	27-153-82	11- 1-09	7-10
94	Davis Coal Mine	12-155-..	5- 9-10	7-10
2	Hunewell Coal Mine.....	1-155-84	6- 1-10	7-10
8	Jewell Coal Mine.....	29-158-86	6-24-10	7-10
98	Crosby Coal Mine.....	30-161-88	5-14-10	7-10
91	Vadness Coal Mine.....	29-160-88	5- 4-10	7-10
95	Fenster Coal Mine.....	7-162-94	5- 9-10	7-10
89	Spring Coulee Coal Mine	1-155-94	5- 4-10	7-10
3	Truax Coal Mine.....	10-162-95	6- 1-10	7-10
96	Black Diamond Coal Mine.....	33-154-100	5- 9-10	7-10
99	Low Level Coal Mine.....	3-154-100	5-16-10	7-10
97	Williston Lfgnite Coal Mine.....	33-154-100	5- 9-10	7-10

STATUTORY FEES.

Recording one brand, and issuing certificate	\$2.00
Making certified copy of Brand certificate	1.00
Registering one sire, and issuing certificate	1.00
Making certified copy of sire certificate .....	.25
Entering transfer of sire certificate .....	.25
Filing report of and issuing coal mine license.....	5.00

STATE TREASURER'S RECEIPTS.

No.	Month	Amount
1908.		
2007	July	\$ 143.50
2133	August	42.75
2226	September	37.25
5	October.....	58.75
99	November	31.00
251	December	52.75
1909.		
930	January	61.75
1068	February	62.25
1192	March	98.25
1275	April	202.00
1328	May	177.25
1614	June	102.00
2252	July	96.00
2709	August	46.25
2930	September	57.50
1	October	48.25
75	November	60.00
218	December	59.50
1910		
1044	January	26.00
1208	February	26.00
1333	March	55.00
1471	April	56.00
1548	May	117.00
1652	June	69.00
Total		\$1,786.00

SUMMARY.

Stock brand registration	\$ 877.00
Sire certificate registration	504.00
Coal mine licenses	405.00
Amount turned into State Treasury	\$ 1,786.00

TWELFTH BIENNIAL REPORT

OF THE .

Commissioner of Agriculture
and Labor

TO THE

GOVERNOR OF NORTH DAKOTA

For the Term Ending June 30, 1912

KNIGHT PRINTING CO
STATE PRINTERS
FARGO, N. D.

LETTER OF TRANSMITTAL.

STATE OF NORTH DAKOTA,
Department of Agriculture and Labor.
Bismarek, November 1, 1912.

Hon. John Burke, Governor of the State of North Dakota.

Sir: I have the honor to herewith transmit, and through you, to the legislature, the twelfth biennial report of the commissioner of agriculture and labor.

Respectfully submitted,
W. C. GILBREATH,
Commissioner.

INTRODUCTORY.

June 30, 1912, marks the close of a biennial period which in some important respects has been unprecedented in the history of North Dakota. Reference is had particularly to the crop failure of 1910 and the curtailed yields of 1911, two untoward circumstances which were well calculated to try the fibre of our people and which perhaps, during the earlier days of the young territory and state, might well have spelled almost irremediable disaster or at the best have seriously retarded our material progress.

So far however from such being the case in 1910 and 1911 it is with pride that we are able to note the entire absence, at any time during those years, of any signs whatsoever indicating panic, discouragement, or of anything but a philosophical acceptance of the situation and an abiding faith that the law of averages would, in the future, furnish adequate compensation for the lean periods referred to. While the consideration of how bounteously Dame Nature made good in 1912 does not properly come within the subject matter of this period, yet it is permissible to note that this was the case and that the crop of that year will go down in the state's history as the most bountiful in the memory of the oldest inhabitant. During the trying period referred to the banks and other financial and commercial institutions at no time showed signs of stress, on the contrary handling the situation with ease and liberality, attesting conclusively the solid foundations upon which the prosperity of our almost exclusively agricultural people is founded.

During the past biennial period the acreage devoted to cultivation of wheat has probably reached its highest point, at least so far as its great preponderance of acreage over other grains is concerned, and any gains in the future, if any, in actual area, will be because of generally increased acreage of all farm crops wheat included. It is true that market price, breaking up of new land, the greater ease with which seed wheat can be obtained than other grains and the readiness with which the product is convertible into cash may all together cause the acreage to be fairly well maintained for some years to come, but the progress of agricultural thought, as developed by the teaching of our soil and crop experts, and the practical experience of our farmers themselves along the lines of one-crop methods, all strongly suggest the thought that diversification and scientific rotation are now due to receive the consideration to which they are entitled, and that the state is on the threshold of a new era of a more

solidly entrenched prosperity than has obtained in the past. In this connection, as significant of the new line of departure, may be mentioned the increasing and successful cultivation of winter wheat, winter rye, the different strains of barley, alfalfa, timothy, the clovers and other tame grasses, and, last but not least, corn, the successful cultivation of which in every section of the state marks its definite acceptance as a member in good standing of the progressive farmer's regular crop schedule. Attention was called in the last biennial report of this department to this tendency towards diversification and it is with pleasure that we record a healthy and vigorous progress during the past two years.

The latest federal census, completed in 1910, reveals the encouraging fact that North Dakota, with 80.8 per cent of increase in population since 1900, stands fifth on the list of states, being exceeded in that respect by no other purely agricultural state. It is believed that this ratio of increase has been fully maintained and that the population of North Dakota is now at least 630,000 as compared with 577,056 as returned by the federal enumerators in 1910. Of this latter number 27.93 per cent live in incorporated places, the balance of 72.07 per cent being actual residents of the rural districts. These figures show that North Dakota is more thoroughly agrarian in its occupations than any other state in the Union. The proportion of residents in incorporated places has however increased from 22.29 per cent in 1900 to 27.93 in 1910, a gain of 5.64 per cent showing that even in North Dakota there exists a tendency towards urban as compared with rural residence.

As anticipated the public domain has become steadily smaller since our last report, despite the opening of the Fort Berthold Indian Reserve, and the speedy passing of the free homestead seems within measurable distance. This impending happening has had its stiffening effect upon land values which are now steadily climbing upwards towards the level which seems to be indicated by the intrinsic value of the lands themselves as compared with eastern prices. The last federal census places the average value of lands in farms at \$25.69 per acre, being an increase of \$14.54 per acre for the past decade, or 130.4 per cent. The total value of lands in farms has grown during the same period 321.3 per cent; of building 262.9 per cent; implements and machinery 212.4 per cent and domestic animals, poultry and bees 155.1 per cent. Of the acreage in farms 72 per cent is improved, which places North Dakota sixth in the roster of states in this respect, and far and away in the lead of all the states when due credit is given for the average size of the farm, which in North Dakota is 382.3 acres, while none of the states that exceed it in percentage of improved acreage have more

than 156.3 acres in the whole farm and from that down to only 27.9 acres. This is a remarkable showing for a state with upwards of 20,000,000 acres in farms.

While the steady advance in land values has been maintained all over the state during the past two years, despite the somewhat unfavorable crop conditions, nevertheless prices are yet far below those which obtain in other states wherein no advantage exists over North Dakota in such vital matters as soil fertility, distance from market, and cost and sufficiency of railroad transportation. This situation is full of promise for a continued influx of desirable citizens, especially of the younger generation, equipped with modern ideas and energy to carry them into practical expression.

In railway construction North Dakota has made very satisfactory progress being among the leaders in the Union in that respect. The state auditor's records show that the mileage assessed in 1911 was 5,336 as compared with 5,012 in 1910. This mileage is actually completed and in use and does not include the greater part of the Great Northern Fargo to Surrey cutoff of 200 miles and only a portion of the Northern Pacific extension north from Mandan through Oliver county to Stanton in Mercer county, nor the Midland Continental from Edgeley to Jamestown, nor of quite a considerable mileage of the Northern Pacific railway in Burleigh and Morton counties, all of which, with other possible extensions will be available for moving the big 1912 crop. The mileage thus to be completed can conservatively be estimated at 300 miles. Projected extensions of these and other lines will easily aggregate another 800 to 1,000 miles and preliminary surveys of that mileage have already been undertaken in McLean, Dunn, Mercer, McKenzie, Emmons and Richland counties.

Another county has been added to the state's list since the last report. The new county takes the name of Divide and is composed of the four northern tiers of townships of Williams county. Division is imminent in Billings county and may be consummated before this goes to press, the proposed new county taking the name of Golden Valley and consisting of about 28 townships from the northwestern part of the present Billings county. The rapid settlement of the state, especially of the western parts, will probably necessitate the subdivision of some of the larger counties, such as Morton and McLean, in the near future, and it is quite within the bounds of possibility that the number of counties will reach 54 or 55 within the next two years.

A noticeable item of the 1909 census returns is the large increase in total number of farms from 1900 to 1910, fully 60 per cent for the ten years. In 1910 50.9 per cent of farms were

mortgaged for an average throughout the state of 22.4 per cent of the value of their lands and buildings, a decrease from 36.3 per cent in 1890. During the past twenty years the average value of farms has increased nearly 100 per cent more than has the average mortgage incumbrance, and the owners equity in his own lands from \$1,584 to \$8,642, or 445.6 per cent.

In area of cultivated land per farm, when the relative size of the farm is taken into consideration, North Dakota leads all other states in the Union with 72 per cent cultivated on a farm of 382 acres, as compared with 86.9 per cent in Iowa on a farm of 156.3 acres, 86.2 per cent in Illinois on a farm of 129.1 acres. 79.5 per cent in Indiana on a farm of 98.8 acres, while Ohio only leads this state a few points with 79.8 per cent improved on a farm of but 88.6 acres.

The great increase in number of automobiles continues to furnish proof of the general prosperity prevailing among our people. In 1911 there were 5,769 returned to the assessor, the total number registered with the Secretary of State being 7,201. The number registered for the first seven months of 1912 is 8,500, showing a gain over the previous year of 1,299, with five months of the year yet to run. These remarkable figures point to an investment of between seven and eight million dollars and furnish additional evidence of how little the lean years of 1910 and 1911 have affected the purchasing power of our citizens.

The lignite coal industry has made a very satisfactory growth during the past two years, there being now over 80 licensed mines in the state. Some of these are modernly equipped with the latest devices for the economical mining of coal and would compare favorably with the best mines in other parts of the country. The future of the industry seems to be very bright at this time as the experiments along the lines of briquetting and coking progress. A company claiming to have a process whereby the lignite can be successfully coked—heretofore considered impossible of accomplishment—is now applying for a gas and coke franchise at Bismarck. Another company is also in the field for a franchise at the same place with a briquetting project in conjunction with the production of gas for illuminating and power purposes. Both companies propose to furnish bonds for the carrying out of their undertakings. Should either of these projects be installed it will be the first plant of the kind to be established in the state.

The reports filed in this department would indicate that for the two fiscal years ending June 30, 1912, there was a total of 672,627 tons coal produced by licensed mines and 12,748 tons taken out of the non licensed mines. There is no doubt that these figures do not show the entire tonnage of North Dakota

lignite production during the last two fiscal years; yet these figures are based upon a complete summary of all the reports.

As a rule coal mine operators are reluctant to comply with this particular provision of law, so much so in fact that in many instances it has required an incessant letter campaign and frequently rigorous letters to secure compliance.

At the time this law went into effect a diligent inquiry was made regarding locations of mines, names and addresses of operators, etc., in order to obtain a reasonably correct list of all the mines in the state. This list has been revised several times and is believed to be fairly correct, although the results are not satisfactory and the next legislature should prescribe an effective remedy that would insure detailed reports from all the mines in the state, however small, or large.

The mine inspector is now by law required to personally inspect every mine in the state, and it would seem that such inspector could without inconvenience or loss of time secure these reports from each operator at the time of his inspection and promptly forward the same direct to this office for file and issuance of license. This would not only insure reports from every mine in the state, but it would mean far better reports and more prompt attention.

Filing of these reports and issuance of licenses should properly be handled exclusively by this department. There have been frequent inquiries for statistical information of this nature, and the value of these reports are of great importance in the dissemination of information regarding the resources of North Dakota.

In 1911 there were nineteen fair associations that reported to this department under provisions of Chapter 125, Session Laws of 1907, but only eighteen such reports came in during 1912. Some of these organizations seem to have been abandoned, while others have been created. Based upon actual figures in most cases, but estimated in a few instances, the total 1911 fair attendance was considerably over two hundred thousand people who came into direct touch with the evidences of healthy agricultural and social progress in this state. It is to be regretted that there is not a fair association in every county in North Dakota, and whenever sufficient interest is manifested in the establishment and maintenance of such an association, it should have every encouragement, assistance and co-operation possible. The educational values of well managed agricultural fairs exert a great influence for good upon local conditions, and the associations annually putting on an exhibit in this state should steadily grow in size and prestige.

The estray law is not entirely effective in that it does not fully reach the results intended, and if the same were remedied a far greater service could be daily rendered to stock owners. It is true that scores of owners of lost stock have been placed in direct communication, through the efforts of the department, with those who found the estrays, yet the known number of restored animals is not commensurate with the total.

While there have been fewer brands actually recorded in recent years, this fact does not by any means indicate that there was not a greater demand. Probably at least twice the number would have been recorded had conditions been different. Scores of stock owners in good faith submitted applications for brands and were disappointed to learn that the records did not permit the issuance of certain suitable designs for the reason that they conflicted with previously recorded brands. There are now more than thirteen thousand distinct records of brands in this department, and a great many of these are obsolete and no longer in use. It is almost impossible to design suitable brands that will not in any way conflict with previously recorded brands, and by reason of this multiplicity of dead timber it is now vastly more complicated and requires a great deal more time and labor to search out lawful brands than it did in prior years. The records are encumbered with hundreds of brands that are positively of no benefit to anyone, and very likely the record owners have left the state, but there is no provision of law by which these abandoned brands may be brought back into use.

The present records are inadequate, old and mutilated, and this is a good time to instal a new system.

In order to clear up the useless encumbrance of the records there should be an enactment of law by the next legislature requiring that all live stock brands shall be re-recorded; that the present record owners shall be notified by registered mail that their brands are delinquent; that the present record owners have preference for re-recording at a nominal fee of possible 25 or 50 cents. This would open for record a large number of plain and simple brands that can not now be used.

Possibly there should be a small annual tax on recorded brands, which if not paid at a specified time would authorize the commissioner to cancel such probably abandoned brand. This would insure an active list, and weed out the dead ones.

Considerable confusion and inconvenience to owners of warehouses and elevators exists at the present time by reason of the different departments of state which have jurisdiction over their affairs. Thus the formulation of rules, regulations and general supervision of all grain warehouses and elevators form part of the duties of the commissioners of railroads; reports of grain

bought, sold and shipped in and out are required to be made to the commissioner of agriculture and labor, while storage warehouses for furniture, etc., must be licensed from the office of the governor. Three state officials are in this way required to keep records on practically the same subject and correspondence intended for one office is continually being misdirected and received in another department, causing delay and annoyance to all concerned. A law concentrating all the details named above in one department would greatly facilitate the transaction of business and tend to a greater accuracy in statistical information gathered.

The campaign of education and enlightenment carried on by this department in its efforts for the promotion of immigration has been conducted along somewhat different lines than in former years, owing to the curtailment by the last legislature of the amount appropriated for this purpose. The visit to other states with representative exhibits of the state's products have been discontinued and some of the more ambitious literary productions have also been dropped. The weekly crop report has been made a monthly one and is now issued as a page of the "State Bulletin," a four sheet paper devoted to the state's interests and issued during the summer months preceding the opening of the Industrial Exposition at Bismarek, to which latter function special attention is given. Maps, pamphlets and other literature full of information concerning the state and its resources have been distributed freely as in former years and an active correspondence maintained with enquirers and prospective settlers. The range and volume of these enquiries have steadily increased, which may fairly be deemed to indicate that the work of previous years is bearing fruit. Among the outside undertakings of this department may be mentioned the state's representative display at the St. Paul Land Show in December, 1911, and the financing of the North Dakota part of the Governor's Special which so successfully toured the eastern states in the fall of 1911.

Undoubtedly the most radical and significant departure in the policy of the department during the past biennial period has been the inception, financing and successful carrying out of the North Dakota Industrial Exposition at Bismarek. The idea expressed by this undertaking was a direct reversal of all previous methods of state advertisement. Heretofore the department had carried its exhibits of the state's product to those parts in other states where it was thought they would do the most good and an attempt made in this manner to interest those who might eventually become citizens of North Dakota. It was a matter of anxious thought to the manager of the exposition whether enough interest had been created by these visits to induce people to

travel hundreds of miles in many instances for the purpose of actually viewing the fields and meadows from which the samples of previous years had been gathered. The result was more than satisfactory and demonstrated conclusively that the work of preceding years had not been in vain and that the good seed had not fallen in stony places. Both financially and educationally the exposition was a success from the start, the attendance, both from citizens of North Dakota and from other states, being heavier than the most sanguine had anticipated. Of the exposition itself it is sufficient to state that it was thoroughly representative of the state, its products, commercial, educational and social features. Through the generosity of the Northern Pacific railway it has now a permanent home, centrally and conveniently located in the heart of the city of Bismarck, and will hereafter be an annual event, the largest and most important function of its kind in North Dakota.

It is with gratification that mention is made of the increasing accuracy and care being exercised by the county assessors in securing the varied statistical information required by this department. Heretofore it has been a cause of much embarrassment to find so many serious discrepancies existing between the figures secured by the agents of the federal department of agriculture and those given to the state's assessors. For many years the present commissioner of agriculture and labor and his predecessors in office have urged, by every means in their power, the importance and value of exact statistical information on grain acreage, production and all the other details upon which details were sought. At one time farmers seemed disposed to suppress or distort the facts, because of the belief that they were liable to be used for speculative purposes by grain operators in eastern markets. When it finally came to be understood that such speculators required details dealing with the actual present conditions and probable acreages of growing crops, and that the figures gathered by the county assessors referred to the crop of the previous year and could not possibly have any value to grain operators as they dealt with a crop already sold, conditions became much improved and a more free response to the somewhat intimate questions of the assessors was given. Another contributing cause to the unreliability of the figures obtained was the indifference and failure of some of the assessors themselves to realize the importance of the duty imposed upon them and a campaign of education extending over many years was necessary to remove this condition. Now, however, returns being received, with a very few exceptions, bear all the signs of conscientious work and careful tabulation on the parts of both assessors and county auditors. The figures obtained by the federal and state bureaus are now

much more nearly in accord than formerly, a condition induced very largely also by the more careful methods now used by the federal officers. This department has always believed that the system in vogue in North Dakota has been theoretically a perfect one, and now that those engaged in the actual work have come to a better understanding of the responsibility and importance of their duties in this respect, the commissioner feels that the figures offered in this biennial report are as reliable and authentic as those secured by any other means.

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1911.

Number of farms in North Dakota	67,993
Number of acres under cultivation	14,502,642
Number of acres in farms (cultivated and uncultivated).....	23,582,967

AGRICULTURAL PRODUCTS FOR 1910.

Crop	Acres Sown (Planted)	Acres Harvested	Bushels Harvested (Tons Cut)
Spring Wheat	7,408,522	5,319,474	35,400,942
Durum Wheat	930,515 ½	785,927 ½	4,980,304
Winter Wheat	8,379 ¾	6,072	81,647 ½
Flax	1,129,794 ¾	835,390	3,447,125 ¾
Oats	1,988,004	1,350,222 ½	15,617,152
Barley	924,895 ¾	557,277	4,352,539 ¾
Hull-less Barley	1,173	818	4,183
Spring Rye	10,280	6,870	31,090
Winter Rye	24,266	20,970	248,626
Speltz	64,401	49,916	436,592
Corn	230,197 ½	*139,902	622,591
Potatoes	41,872	.....	1,580,518
Roots of all Kinds	1,568 ¾	.....	26,640
Millet	69,830 ¾	.....	107,716
Hungarian	6,997 ¾	.....	1,593 ¾
Clover	15,956 ¾	.....	9,873 ½
Timothy	150,206 ¾	.....	77,133
Alfalfa	4,310 ¾	.....	2,602 ¾
Brome Grass	19,510 ¾	.....	5,504
Other Tame Hay	16,562	.....	31,566 ¾
Wild Prairie Hay .....	.....	.....	1,443,088 ¾

*Acres cut for Fodder.

ACREAGE LOST BY HAIL, 1910.

Total loss	410,899 ¾
Three-fourths loss	117,812 ¾
One-half loss	90,084
One-fourth loss	71,515 ¾

CROP ACREAGE FOR 1911.

Spring Wheat	8,402,492 ¾
Durum Wheat	642,745
Winter Wheat	15,842 ¾
Flax	1,142,777 ¾
Oats	1,907,389
Barley	733,168 ¾
Hull-less Barley	3,903
Spring Rye	10,435 ¾
Winter Rye	25,184
Speltz	69,638 ¾
Corn	452,984 2/3
Potato	41,553 1/3
Roots of all kinds	17,163 ¾
Millet	86,001 ¾
Hungarian	6,302 ¾
Clover	15,530
Timothy	88,372
Alfalfa	5,063 ¾
Brome Grass	12,486 ¾
Other Tame grasses	19,118 ¾
Total Acreage of Crop including tame grasses.....	13,934,448 ¾
Value of Garden Products Sold in 1910	\$ 71,350.15
Value of Poultry and Eggs Sold in 1910.....	1,059,971.81

DAIRY PRODUCTS, 1910.

Number of pounds butter made in families	9,631,367 1/2
Number of pounds cheese made in families	73,097
Pounds of milk sold to Cheese Factories	498,256
Pounds of milk sold to Creameries	4,952,750
Pounds of Cream sold Creameries	5,621,430
Amount received for milk and cream sold to Cheese Factories, Creameries or Stations	\$ 731,567.98
Amount received for milk and cream sold, other than specified	\$ 270,592.33
Number of Cows Milking in 1911	168,788

SHEEP AND WOOL, 1910.

Number of Sheep Sheared	116,131
Number of Pounds Wool Clipped	812,023

ORCHARDS AND FRUITS, 1910.

Number of Fruit Trees in Bearing	28,393
Number of Fruit Trees not in Bearing	76,281
Number of Acres Berries	7,029 1/12
Received for Fruit Marketed	\$ 1,834.50
Number of Acres Artificial Forests	51,766

LIVE STOCK, 1911.

Horses	488,628
Mules	6,848
Cattle	480,337
Sheep	139,479
Hogs	209,059
Total,	1,324,351
Value of Animals Fattened and killed for Home Use	\$ 2,637,633.66
Amount received for Cattle, Hogs and Sheep sold for Market	4,685,492.51
Received for Horses sold to Market	2,602,420.82
Value of all kinds of stock brought in to the state	4,357,329.63

COAL MINES, 1910.

Number of Mines operated	73
Number of tons mined	351,730
Number of men employed	611
Total wages paid miners,	\$ 620,707.50

VITAL STATISTICS, 1910.

Number of Males living on Farms	160,727
Number of Females living on Farms	128,580
Number of Births	8,807
Number of Deaths	1,937

FARM LABOR STATISTICS, 1910.

Number of Male employes	33,805
Number of Female employes	6,972
Total wages paid during the year	\$ 8,168,842.10

CREAMERIES, CHEESE FACTORIES AND STATIONS, 1910.

Number of Creameries	73
Number of pounds butter manufactured	1,741,800
Number of milk and cream Stations	56

ELEVATORS AND WAREHOUSES, 1911.

Number of Farmers' Elevators	237
Total Capacity of Farmers' Elevators, Bushels,	6,712,000
Number of Line Elevators	1,283
Total Capacity of Line Elevators, Bushels	31,523,500
Number of Lumber Yards	563

FLOURING MILLS, 1911.

Total Number of Mills	52
Total Daily Capacity, Barrels,	7,595 5/6
Total number of Barrels milled during 1910	1,303,114 1/2

NUMBER OF FARMS AND ACREAGE, 1911.

COUNTY	Total No. of farms.	Total No. of Acres in farms cultivated and uncultivated	Total No. of Acres Under Cultivation.
Adams	1,252	253,892	101,623
Barnes	1,603	760,177	597,164
Benson	1,370	560,193	393,266
Billings	1,991	574,968	240,653
Bottineau	2,075	863,766	661,010
Bowman	1,125	229,250	94,818
Burke	1,096	306,171	197,939
Burleigh	1,375	411,492	167,335
Cass	1,488	833,287	723,415
Cavalier	2,000	949,318	452,999
Dickey	1,011	561,403	353,493
Divide	1,611	230,839	115,603
Dunn	1,139	322,997	98,896
Eddy	523	263,778	180,447
Emmons	1,227	565,995	241,550
Foster	550	299,378	250,129
Grand Forks	1,832	737,990	581,111
Griggs	816	380,225	286,565
Hettinger	1,222	298,792	140,997
Kidder	1,124	301,636	113,300
LaMoure	1,170	598,914	446,764
Logan	929	326,104	135,825
McHenry	2,015	662,880	448,256
McIntosh	1,200	369,017	155,331
McKenzie	1,311	235,468	91,664
McLean	2,004	576,909	318,661
Mercer	557	212,274	77,983
Morton	2,496	798,913	260,057
Mountrail	2,568	410,907	162,864
Nelson	1,142	532,388	371,773
Oliver	649	198,484	65,783
Pembina	1,450	534,054	432,837
Pierce	1,400	464,083	331,535
Ramsey	1,230	602,571	425,111
Ransom	1,055	385,230	284,768
Renville	935	277,702	193,022
Richland	1,776	625,666	424,658
Rolette	988	380,043	222,170
Sargent	1,004	412,706	244,986
Sheridan	1,036	337,269	200,406
Stark	1,200	441,753	151,138
Steele	832	382,032	309,767
Stutsman	2,205	870,280	497,325
Towner	1,059	529,696	425,479
Traill	1,349	369,590	308,857
Walsh	2,120	682,613	525,552
Ward	1,921	521,921	322,400
Wells	1,298	600,573	453,386
Williams	2,664	537,287	221,955
Totals	67,993	23,582,967	14,502,642

SPRING WHEAT, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	34,306	.....	33,023	142,898	4.33
Barnes	245,055	.....	223,209	1,672,592	7.54
Benson	234,453	80,969	95,630	610,275	6.38
Billings	81,434	845	80,589	994,028	12.35
Bottineau	447,890	.....	296,051	1,815,200	6.13
Bowman	30,710	.....	30,240	214,760	7.10
Burke	121,119	15,696	105,423	650,381	6.16
Burleigh	83,706	11,100	30,642	111,446	3.63
Cass	310,247	.....	289,755	2,767,485	9.55
Cavaller	241,729	35,299	172,188	1,040,749	6.04
Dickey	57,023	.....	55,958	310,174	5.72
Divide	101,063	.....	95,671	862,017	9.01
Dunn	46,846	.....	45,940	347,572	7.56
Eddy	92,243	.....	52,583	249,598	4.74
Emmons	127,079	.....	99,324	380,754	3.83
Foster	100,911	11,803	72,294	522,995	7.23
Grand Forks	319,644	.....	201,434	1,418,462	7.09
Griggs	148,052	1,656	125,188	938,917	7.50
Hettinger	68,988	.....	64,505	393,825	6.10
Kidder	50,184	14,607	25,521	86,771	3.4
LaMoure	105,725	.....	99,247	641,566	6.46
Logan	66,831	3,350	63,481	320,480	5.04
McHenry	285,389	30,801	187,634	664,512	3.54
McIntosh	99,575	.....	95,676	525,525	5.40
McKenzie	50,366	.....	35,488	204,148	5.75
McLean	206,111	4,280	116,038	377,639	3.28
Mercer	51,939	.....	26,969	132,011	4.48
Morton	156,800	.....	138,054	511,971	3.70
Mountrail	85,437	.....	80,645	615,324	7.63
Nelson	194,414	32,854	126,900	697,653	5.49
Oliver	40,461	20,349	20,112	69,347	3.44
Pembina	169,746	4,002	142,172	1,792,039	12.64
Pierce	234,550	49,732	108,225	639,825	5.91
Ramsey	265,328	.....	187,785	965,844	5.16
Ransom	44,412	455	38,587	363,771	9.42
Renville	118,052	.....	94,592	473,723	5.008
Richland	201,370	.....	198,918	2,029,228	10.20
Rolette	137,643	90,434	46,761	312,293	6.65
Sargent	47,904	.....	35,554	375,216	10.55
Sheridan	139,209	24,449	36,474	119,739	3.28
Stark	80,421	.....	79,550	841,945	10.58
Steele	148,139	7,356	136,940	930,107	6.79
Stutsman	228,567	.....	204,320	995,382	4.87
Towner	244,930	121,777	103,194	754,424	7.60
Trails	199,773	6,990	140,254	1,183,542	8.43
Walsh	280,338	37,870	229,379	1,610,313	7.02
Ward	190,815	.....	108,614	428,709	3.94
Wells	256,302	16,077	133,782	684,526	5.11
Williams	135,594	.....	108,961	609,242	5.49
Totals	7,406,522	622,750	5,319,474	35,400,942	6.67

DURUM WHEAT, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	7,865 1/4	.....	5,919 1/4	53,126	8.97
Barnes	86,024	.....	82,253	527,339	6.41
Benson	2,629	270	1,496	9,912	6.02
Billings	3,134	95	3,039	31,831	10.47
Bottineau	200	.....	.....	.....	.....
Bowman	3,392	.....	3,276	24,746	7.54
Burke	237	11	226	1,217	5.38
Burleigh	3,439	170	1,981	6,980	3.52
Cass	61,302	.....	51,160	270,108	5.27
Cavalier	110	.....	60	110	1.83 1/3
Dickey	147,943	.....	131,673	643,000	4.88
Divide	135	.....	135	598	4.43
Dunn	6	.....	5	68	13.4
Eddy	13,055	.....	7,449	31,686	4.25
Emmons	39,030	.....	2,523	8,230	3.26
Foster	32,971	3,430	21,824	130,821	5.99
Grand Forks	2,337	.....	1,163	5,753	4.94
Griggs	20,294	110	18,412	101,631	5.51
Hettinger	778	.....	773	4,610	5.96
Kidder	3,300	934	1,864	7,403	3.97
LaMoure	162,998	.....	161,762	937,236	5.76
Logan	8,806	854	7,952	37,069	4.66
McHenry	878	455	345	1,724	4.99
McIntosh	225	.....	225	1,402	6.23
McKenzie	23	.....	23	70	3.04
McLean	2,300	25	1,514	4,969	3.28
Mercer	6	.....	.....	.....	.....
Morton	2,314	.....	1,014	2,406	2.37
Mountrail	660	.....	660	5,209	7.89
Nelson	7,997	1,802	5,347	22,262	4.16
Oliver	55	50	5	19	0.8
Pembina	160	.....	160	1,200	7.5
Pierce	119	25	34	325	9.56
Ramsey	190	.....	190	600	3.15
Ransom	114,221	190	104,933	997,244	9.50
Renville	490	380	380	1,810	4.76
Richland	11,827	.....	11,539	113,353	9.82
Rolette	170	.....	62	250	4.03
Sargent	91,210	.....	70,878	647,732	9.13
Sheridan	1,108	5	623	2,355	3.78
Stark	1,371	.....	1,541	16,099	10.44
Steele	18,078	495	17,068	83,407	4.88
Stutsman	36,269	.....	29,580	127,343	4.33
Towner	2,765	1,740	790	4,201	5.19
Traill	2,732	425	1,592	12,364	7.76
Walsh	315	.....	315	1,993	6.32
Ward	768	.....	343	1,113	3.24
Wells	34,097	790	31,104	97,781	3.14
Williams	273	.....	87	399	4.58
Totals	930,515 1/4	11,876	785,927 1/2	4,980,304	6.33

WINTER WHEAT, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Yield Average Bushels Harvested
Adams	93 1/4	.....	12 1/2	135 1/2	10.84
Barnes	49	.....	12	150	12.5
Benson .....	.....	.....	.....	.....	.....
Billings	18	5	12	561	48.15
Bottineau	6	.....	.....	.....	.....
Bowman	94	.....	10	302	30.2
Burke .....	.....	.....	.....	.....	.....
Burleigh	10	.....	6	18	3.
Cass	1,059	.....	1,329	12,233	9.20
Cavaller	12	12	.....	.....	.....
Dickey	22	.....	.....	.....	.....
Divide .....	.....	.....	.....	.....	.....
Dunn	25	.....	25	270	10.8
Eddy .....	.....	.....	.....	.....	.....
Emmons	10	.....	10	240	24.
Foster	54	30	7	58	8.28
Grand Forks	115	.....	15	97	8.46 2/3
Griggs	200	.....	200	750	3.75
Hettinger	8	.....	1 1/2	.....	.....
Kidder	152	.....	74	410	5.54
LaMoure	14	.....	8	71	8.875
Logan	19	8	11	124	11.27
McHenry	12	.....	2	30	15.
McIntosh .....	.....	.....	.....	.....	.....
McKensie	20	.....	20	150	7.5
McLean	75	.....	75	225	8.
Mercer .....	.....	.....	.....	.....	.....
Morton .....	.....	.....	.....	.....	.....
Mountrail	8	.....	8	64	8.
Nelson	25	.....	.....	.....	.....
Oliver	125	25	100	4	.4
Pembina	22	19	3	120	40.
Pierce .....	.....	.....	.....	.....	.....
Ramsey	149	.....	26	244	9.38
Ransom	42	.....	42	359	8.54
Renville	10	.....	.....	.....	.....
Richland	35	.....	35	554	15.82 6/7
Rolette .....	.....	.....	.....	.....	.....
Sargent	26	.....	26	228	8.76
Sheridan	15	.....	15	65	4.33 1/3
Stark .....	.....	.....	.....	.....	.....
Steele	3,015	.....	2,600	11,115	4.275
Stutsman	2,238	.....	1,176	2,262	1.92
Towner	95	.....	.....	.....	.....
Traill	383	110	36	610	16.94
Walsh	3	.....	3	90	30.
Ward	15	.....	15	15	1.
Wells	50	.....	.....	.....	.....
Williams	61	.....	156	93	.59 12/19
Totals	8,379 1/4	209	6,072	31,647 1/2	5.21

FLAX, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	24,833 1/4	-----	15,384 1/2	33,756 1/4	2.19
Barnes	38,536	-----	22,771	74,736	3.27
Benson	21,246	2,777	13,430	50,598	3.76
Billings	63,757	1,680	62,077	378,877	6.10
Bottineau	33,594	-----	30,174	182,280	6.04
Bowman	27,065	-----	24,835	51,469	2.11
Burke	7,198	855	6,843	39,667	5.79
Burleigh	26,244	2,771	11,756	39,814	3.38
Cass	21,223	-----	8,784	22,815	2.54
Cavaller	6,720	936	5,176	24,842	4.79
Dickey	41,603	-----	26,678	66,608	2.45
Divide	15,491	-----	13,295	114,391	8.60
Dunn	17,611	-----	15,043	95,962	6.37
Eddy	14,227	-----	10,893	47,722	4.38
Emmons	22,732	-----	7,898	11,726	1.48
Foster	10,887	630	8,961	54,129	6.04
Grand Forks	20,325	-----	8,380	25,063	3.09
Griggs	19,661 1/2	347	17,813 1/2	73,828	4.14
Hettinger	24,348 1/2	-----	20,615	73,811	3.58
Kidder	28,661	3,082	18,075	62,801	3.47
LaMoure	43,361	-----	29,356	99,378	3.38
Logan	33,078	3,141	29,937	92,505	3.08
McHenry	24,176	552	20,009	88,091	4.40
McIntosh	28,783	-----	18,177	50,251	2.77
McKenzie	19,535	-----	18,750	70,685	3.77
McLean	56,797	3,600	43,868	175,272	3.99
Mercer	10,710	-----	8,610	41,354	4.80
Morton	26,098	-----	13,159	35,830	2.72
Mountrail	14,615	-----	13,116	77,298	5.89
Nelson	22,168	3,827	14,775	49,666	3.36
Oliver	5,722	2,275	3,447	11,781	3.41
Pembina	15,214	1,671	13,353	49,812	3.73
Pierce	14,304	1,802	10,387	46,006	4.43
Ramsey	20,537	-----	15,783	66,285	4.19
Ransom	16,292	2,774	10,867	53,583	4.92
Renville	15,714	-----	14,870	75,133 1/2	5.05
Richland	18,205	-----	14,134	83,492	5.90
Rolette	17,718	3,001	14,710	30,809	2.09
Sargent	22,796	-----	19,660	99,365	5.05
Sheridan	18,764	946	15,622	74,068	4.74
Stark	18,017	-----	12,938	72,941	5.63
Steele	21,372	2,108	17,707	49,974	2.82
Stutsman	52,398	-----	31,763	116,933	3.68
Towner	21,001	5,401	14,507	57,586	3.97
Trall	7,487	1,958	3,544	9,393	2.65
Walsh	16,487	3,649	10,866	30,268	2.78
Ward	29,677 1/2	-----	23,819 1/2	100,860	4.23
Wells	24,540	737	17,837	66,865	3.74
Williams	13,264 1/2	-----	11,506 1/2	47,346	4.11
Totals	1,129,794 1/4	54,530	885,390	3,447,125 1/4	4.12

OATS, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Yield Average Bushels Harvested
Adams	13,899		8,213	54,282	6.60
Barnes	77,926		67,786	877,144	12.93
Benson	48,409	14,265	22,777	227,700	9.99
Billings	32,413	1,242	31,171	1,140,614	36.59
Bottineau	147,532		68,347	559,797	8.19
Bowman	12,903		10,321	80,304	7.78
Burke	30,666	8,675	21,991	222,312	10.10
Burleigh	21,865	1,985	6,795	44,841	6.59
Cass	86,269		73,767	922,906	12.51
Cavaller	92,650	13,706	57,637	565,385	9.80
Dickey	35,052		30,825	221,232	7.17
Divide	22,788		12,473	270,975	21.72
Dunn	10,726		20,619	131,513	6.37
Eddy	29,395		19,847	163,293	8.22
Emmons	15,165		7,780	38,465	4.94
Foster	42,881	2,264	28,702	340,043	11.84
Grand Forks	77,485		45,468	509,942	11.21
Griggs	37,811	484	32,094	434,922	13.55
Hettinger	17,749		13,139	108,187	8.28
Kidder	14,962	2,794	5,944	35,130	5.91
LaMoure	40,934		34,950	328,813	9.40
Logan	9,271	1,729	7,542	46,143	6.11
McHenry	68,862	8,155	41,222	291,199	7.06
McIntosh	5,680		5,327	45,156	8.47
McKenzie	12,626		11,023	78,474	7.11
McLean	45,039	5,280	24,268	153,548	6.33
Mercer	9,303		5,946	50,193	8.44
Morton	38,572		21,202	129,610	6.11
Mountrail	22,221		20,161	270,300	13.40
Nelson	44,370	8,405	31,111	286,665	9.21
Oliver	11,781 ½	8,493	3,287 ½	16,715	5.08
Pembina	61,519	1,027	51,140	1,235,619	24.10
Pierce	46,855	8,905	21,742	183,551	8.44
Ramsey	46,719		30,555	275,280	9.
Ransom	35,432	757	31,010	468,408	15.10
Renville	26,123		14,739	112,466	7.63
Richland	70,255		69,697	1,329,342	19.07
Rolette	37,319	8,947	10,612	83,912	7.90
Sargent	27,490		22,573	326,624	14.46
Sheridan	30,912		7,830	39,980	5.10
Stark	19,439		19,154	282,309	14.73
Steele	38,755	2,218	35,191	374,352	10.63
Stutsman	69,973		55,992	464,413	8.29
Towner	59,479	23,683	24,389	206,934	8.48
Trail	35,363	1,538	33,087	450,516	13.61
Walsh	66,673	10,029	52,144	515,298	9.88
Ward	44,266		24,298	155,155	6.38
Wells	68,259	2,765	32,718	266,387	8.14
Williams	31,467 ½		21,616	200,803	9.28
Totals	1,988,004	137,346	1,350,222 ½	15,617,152	11.56

DURUM WHEAT, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Busbels Harvested	Average Yield Busbels Harvested
Adams	7,865 1/2	.....	5,919 1/2	53,126	8.97
Barnes	86,024	.....	82,253	527,339	6.41
Benson	2,629	270	1,496	9,912	6.02
Billings	3,134	95	3,039	31,831	10.47
Bottineau	200	.....	.....	.....	.....
Bowman	3,392	.....	3,276	24,746	7.54
Burke	237	11	226	1,217	5.38
Burleigh	3,439	170	1,981	6,980	3.52
Cass	61,302	.....	51,160	270,108	5.27
Cavaller	110	.....	60	110	1.83 1/3
Dickey	147,943	.....	131,673	643,000	4.88
Divide	135	.....	135	598	4.43
Dunn	5	.....	5	68	13.4
Eddy	13,055	.....	7,449	31,636	4.25
Emmons	39,030	.....	2,523	8,230	3.26
Foster	32,971	3,430	21,824	130,821	5.99
Grand Forks	2,337	.....	1,103	5,753	4.94
Griggs	20,294	110	18,412	101,631	5.51
Hettinger	778	.....	773	4,610	5.96
Kidder	3,300	934	1,864	7,403	3.97
LaMoure	162,998	.....	161,762	937,238	5.78
Logan	8,806	854	7,952	37,069	4.66
McHenry	878	455	345	1,724	4.99
McIntosh	225	.....	225	1,402	6.23
McKenzie	23	.....	23	70	3.04
McLean	2,300	25	1,514	4,969	3.28
Mercer	6	.....	.....	.....	.....
Morton	2,314	.....	1,014	2,406	2.37
Mountrail	660	.....	660	5,209	7.89
Nelson	7,997	1,802	5,347	22,262	4.16
Oliver	55	50	5	19	0.8
Pembina	160	.....	160	1,200	7.5
Pierce	119	25	34	325	9.56
Ramsey	190	.....	190	600	3.15
Ransom	114,221	190	104,933	997,244	9.50
Renville	490	380	380	1,810	4.76
Richland	11,827	.....	11,539	113,353	9.82
Rolette	170	.....	62	250	4.03
Sargent	91,210	.....	70,878	647,732	9.13
Sheridan	1,108	5	623	2,355	3.78
Stark	1,371	.....	1,541	16,089	10.44
Steele	18,078	495	17,068	83,407	4.88
Stutsman	36,269	.....	29,580	127,343	4.33
Towner	2,765	1,740	700	4,201	5.19
Traill	2,732	425	1,592	12,364	7.76
Walsh	315	.....	315	1,993	6.32
Ward	768	.....	343	1,113	3.24
Wells	34,007	790	31,104	97,781	3.14
Williams	273	.....	87	399	4.58
Totals	930,515 1/2	11,876	785,927 1/2	4,980,304	6.33

WINTER WHEAT, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Yield Average Bushels Harvested
Adams	93 1/4		12 1/4	135 1/4	10.84
Barnes	49		12	150	12.5
Benson					
Billings	18	5	12	561	48.15
Bottineau	6				
Bowman	94		10	302	30.2
Burke					
Burleigh	10		6	18	3.
Cass	1,059		1,329	12,293	9.20
Cavalier	12	12			
Dickey	22				
Divide					
Dunn	25		25	270	10.8
Eddy					
Emmons	10		10	240	24.
Foster	54	30	7	58	8.28
Grand Forks	115		15	97	6.46 2/3
Griggs	200		200	750	3.75
Hettinger	8		1 1/2		
Kidder	152		74	410	5.54
LaMoure	14		8	71	8.875
Logan	19	8	11	124	11.27
McHenry	12		2	30	15.
McIntosh					
McKenzie	20		20	150	7.5
McLean	75		75	225	8.
Mercer					
Morton					
Mountrail	8		8	64	8.
Nelson	25				
Oliver	125	25	100	4	4.
Pembina	22	19	3	120	40.
Pierce					
Ramsey	149		26	244	9.38
Ransom	42		42	359	8.54
Renville	10				
Richland	35		35	554	15.82 6/7
Rolette					
Sargent	26		26	228	8.76
Sheridan	15		15	65	4.33 1/3
Stark					
Steele	3,015		2,600	11,115	4.275
Stutsman	2,238		1,176	2,262	1.92
Towner	95				
Trall	383	110	38	610	16.94
Walsh	3		3	90	30.
Ward	15		15	15	1.
Wells	50				
Williams	61		156	93	.59 12/19
Totals	8,379 1/4	209	6,072	31,647 1/4	5.21

FLAX, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	24,833 1/4	-----	15,384 1/2	33,756 1/4	2.19
Barnes	38,536	-----	22,771	74,736	3.27
Benson	21,246	2,777	13,430	50,598	3.76
Billings	63,757	1,680	62,077	378,877	6.10
Bottineau	33,594	-----	30,174	182,260	6.04
Bowman	27,065	-----	24,335	51,469	2.11
Burke	7,198	355	6,843	39,667	5.79
Burleigh	26,244	2,771	11,756	39,814	3.38
Cass	21,223	-----	8,784	22,815	2.64
Cavalier	6,720	936	5,176	24,842	4.79
Dickey	41,603	-----	26,678	65,608	2.45
Divide	15,491	-----	13,295	114,391	8.60
Dunn	17,611	-----	15,043	95,962	6.37
Eddy	14,227	-----	10,898	47,722	4.38
Emmons	22,732	-----	7,898	11,726	1.48
Foster	10,887	630	8,961	54,129	6.04
Grand Forks	20,325	-----	8,380	25,963	3.09
Griggs	19,661 1/2	347	17,813 1/2	73,828	4.14
Hettinger	24,348 1/2	-----	20,615	73,811	3.58
Kidder	28,661	8,092	18,075	62,801	3.47
LaMoure	43,361	-----	29,356	99,378	3.38
Logan	33,078	3,141	29,937	92,505	3.08
McHenry	24,176	552	20,009	88,091	4.40
McIntosh	28,783	-----	18,177	50,251	2.77
McKenzie	19,535	-----	18,750	70,685	3.77
McLean	56,797	3,600	43,868	175,272	3.99
Mercer	10,710	-----	8,610	41,354	4.80
Morton	26,098	-----	13,159	35,830	2.72
Mountrail	14,615	-----	13,116	77,298	5.89
Nelson	22,168	3,827	14,775	49,666	3.36
Oliver	5,722	2,275	3,447	11,761	3.41
Pembina	15,214	1,671	13,353	49,812	3.73
Pierce	14,304	1,802	10,387	46,006	4.43
Ramsey	20,537	-----	15,783	66,285	4.19
Ransom	16,292	2,774	10,857	53,583	4.92
Renville	15,714	-----	14,870	75,133 1/2	5.05
Richland	18,205	-----	14,134	83,492	5.90
Rolette	17,718	3,001	14,710	30,809	2.09
Sargent	22,796	-----	19,660	99,865	5.05
Sheridan	18,764	946	15,622	74,068	4.74
Stark	18,017	-----	12,938	72,941	5.63
Steele	21,372	2,108	17,707	49,974	2.82
Stutsman	52,398	-----	31,763	116,933	3.68
Towner	21,001	5,401	14,507	57,566	3.97
Trall	7,487	1,958	3,544	9,393	2.65
Walsh	16,487	3,649	10,866	30,268	2.78
Ward	29,677 1/2	-----	23,819 1/2	100,860	4.23
Wells	24,540	737	17,837	66,865	3.74
Williams	13,264 1/2	-----	11,506 1/2	47,346	4.11
Totals	1,129,794 1/4	54,530	835,390	3,447,125 1/4	4.12

OATS, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Yield Average Bushels Harvested
Adams	13,899		8,213	54,282	6.60
Barnes	77,926		67,786	877,144	12.93
Benson	48,409	14,265	22,777	227,700	9.99
Billings	32,413	1,242	31,171	1,140,614	36.59
Bottineau	147,532		68,347	559,797	8.19
Bowman	12,903		10,321	80,804	7.78
Burke	30,666	8,675	21,991	222,312	10.10
Burleigh	21,365	1,985	6,795	44,841	6.59
Cass	86,269		73,767	922,908	12.51
Cavalier	92,650	13,706	57,637	565,885	9.80
Dickey	35,052		30,825	221,232	7.17
Divide	22,788		12,473	270,975	21.72
Dunn	10,726		20,619	131,513	6.37
Eddy	29,395		19,847	163,293	8.22
Emmons	15,165		7,780	38,465	4.94
Foster	42,881	2,264	28,702	340,043	11.84
Grand Forks	77,485		45,468	509,942	11.21
Griggs	37,811	484	32,094	434,922	13.55
Hettinger	17,749		13,139	108,187	8.23
Kidder	14,962	2,794	5,944	35,130	5.91
LaMoure	40,934		34,950	328,813	9.40
Logan	9,271	1,729	7,542	46,143	6.11
McHenry	68,862	8,155	41,222	291,199	7.06
McIntosh	5,680		5,327	45,156	8.47
McKenzie	12,628		11,023	78,474	7.11
McLean	45,039	5,280	24,268	153,548	6.33
Mercer	9,303		5,946	50,193	8.44
Morton	38,572		21,202	129,610	6.11
Mountrail	22,221		20,161	270,300	13.40
Nelson	44,370	8,405	31,111	286,665	9.21
Oliver	11,781 ½	8,493	3,287 ½	16,715	5.08
Pembina	61,519	1,027	51,140	1,235,619	24.16
Pierce	46,855	8,905	21,742	183,551	8.44
Ramsey	46,719		30,555	275,280	9.
Ransom	35,432	757	31,010	468,408	15.10
Renville	26,123		14,739	112,466	7.63
Richland	70,255		69,697	1,329,342	19.07
Rolette	37,319	8,947	10,612	83,912	7.90
Sargent	27,490		22,573	326,624	14.46
Sheridan	30,912		7,830	39,980	5.10
Stark	19,489		19,154	282,309	14.73
Steele	38,755	2,218	35,191	374,352	10.63
Stutsman	69,973		55,992	464,413	8.29
Towner	59,479	23,683	24,389	206,934	8.48
Trail	35,363	1,538	33,087	450,516	13.61
Walsh	66,673	10,029	52,144	515,298	9.88
Ward	44,266		24,298	155,155	6.38
Wells	63,259	2,765	32,718	266,387	8.14
Williams	31,467 ½		21,616	200,803	9.28
Totals	1,988,004	137,346	1,350,222 ½	15,617,152	11.56

BARLEY, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	1,718	.....	1,473	8,753	5.87
Barnes	40,369	.....	30,452	263,747	8.66
Benson	30,759	12,363	13,045	91,428	7.00
Billings	1,620	42	1,578	27,880	17.66
Bottineau	28,430	.....	17,836	142,013	7.96
Bowman	1,406	.....	1,145	7,761	6.78
Burke	1,843	347	996	6,152	6.15
Burleigh	3,800	227	956	3,368	3.52
Cass	48,940	.....	30,654	251,509	8.20
Cavaller	48,826	3,949	36,471	310,661	8.51
Dickey	30,524	.....	24,970	150,399	6.02
Divide	940	.....	775	8,281	10.68
Dunn	731	.....	717	6,450	8.99
Eddy	9,529	.....	5,015	35,748	7.12
Emmons	11,440	.....	8,106	31,071	3.83
Foster	17,079	2,183	10,171	88,870	8.71
Grand Forks	50,014	.....	20,120	148,222	7.26
Griggs	25,143	895	18,648	189,785	10.17
Hettinger	842	.....	677	6,447	9.52
Kidder	4,857	1,570	2,951	10,601	3.59
LaMoure	29,515	.....	24,159	174,800	7.22
Logan	10,226	938	9,288	59,454	6.40
McHenry	15,820	2,395	8,925	66,782	7.48
McIntosh	12,694	.....	12,189	10,418	.854
McKenzie	652	.....	471	2,880	6.11
McLean	6,554	400	2,792	12,172	4.35
Mercer	1,398	.....	342	2,178	6.36
Morton	3,728	.....	1,689	9,263	5.48
Mountrail	2,426	.....	2,222	21,037	9.46
Nelson	36,199	10,971	20,913	95,905	4.53
Oliver	1,787 ½	1,198	589 ½	2,436	4.13
Pembina	57,800	11,900	43,060	476,095	11.06
Pierce	20,331	5,485	7,165	45,272	6.31
Ramsey	41,200	.....	25,100	155,169	6.18
Ransom	9,218	557	6,643	68,028	10.24
Renville	3,190	.....	2,021	9,733 ¼	4.81
Richland	28,372	.....	27,847	403,983	16.66
Rolette	24,526	8,742	7,558	47,760	6.31
Sargent	24,130	.....	10,874	108,722	9.99
Sheridan	4,513	929	951	4,094	4.30
Stark	1,885	.....	1,927	24,867	12.90
Steele	20,929	6,115	13,663	83,809	6.13
Stutsman	31,399	.....	22,542	132,960	5.89
Towner	42,736	20,691	15,190	101,477	6.68
Traill	27,273	7,136	14,693	118,295	7.73
Walsh	62,100	19,560	31,975	181,139	5.66
Ward	5,118	.....	1,799	9,404	5.22
Wells	32,372	2,284	12,052	72,759	6.03
Williams	2,984 ¼	.....	1,877 ½	9,364	4.98
Total	924,895 ¾	120,877	557,277	3,875,844 ¼	6.95

HULL-LESS BARLEY, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	13	.....	8	26	3.25
Barnes .....	.....	.....	.....	.....	.....
Benson .....	.....	.....	.....	.....	.....
Billings	19	.....	19	394	20.73
Bottineau	23	.....	.....	.....	.....
Bowman .....	.....	.....	.....	.....	.....
Burke	151	60	91	722	7.93
Burleigh	41	8	9	22	2.22
Cass .....	.....	.....	.....	.....	.....
Cavaller .....	.....	.....	.....	.....	.....
Dickey	5	.....	5	20	4.
Divide	33	.....	33	120	3.63
Dunn .....	.....	.....	.....	.....	.....
Eddy .....	.....	.....	.....	.....	.....
Emmons	25	.....	25	35	1.4
Foster .....	.....	.....	.....	.....	.....
Grand Forks .....	.....	.....	.....	.....	.....
Griggs	80	.....	80	135	1.6875
Hettinger .....	.....	.....	.....	.....	.....
Kidder .....	.....	.....	.....	.....	.....
LaMoure	2	.....	2	26	13.
Logan .....	.....	.....	.....	.....	.....
McHenry	55	.....	40	243	6.075
McIntosh .....	.....	.....	.....	.....	.....
McKenzie	5	.....	5	20	4.
McLean	13	.....	3	35	11.66
Mercer .....	.....	.....	.....	.....	.....
Morton	75	.....	5	32	6.4
Mountrail	3	.....	1	10	10.
Nelson .....	.....	.....	.....	.....	.....
Oliver	25	25	.....	.....	.....
Pembina .....	.....	.....	.....	.....	.....
Pierce .....	.....	.....	.....	.....	.....
Ramsey	24	.....	24	140	5.83
Ransom	10	.....	10	140	14.
Renville	7	.....	7	24	3.42
Richland .....	.....	.....	.....	.....	.....
Rolette	75	75	.....	.....	.....
Sargent	50	.....	40	400	10.
Sheridan .....	.....	.....	.....	.....	.....
Stark	28	.....	28	830	29.64
Steele	30	.....	30	270	9.
Stutsman	10	.....	10	20	2.
Towner	46	18	40	120	3.
Traill .....	.....	.....	.....	.....	.....
Walsh .....	.....	.....	.....	.....	.....
Ward .....	.....	.....	.....	.....	.....
Wells	85	.....	45	160	3.55
Williams	240	.....	53	239	4.50
Totals	1,173	186	613	4,183	6.82

SPRING RYE, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Yield Average Bushels Harvested
Adams	87		87	1,707	19.62
Barnes	180	95	85	216	2.54
Benson	2		2	20	10.
Billings	134		134	683	5.09
Bottineau					
Bowman	32	12	20	57	2.85
Burke	1,321	263	722	1,684	2.33
Burleigh	155		140	1,605	11.46
Cass	240	90	90	228	2.53
Cavaller	17		17	171	10.05
Dickey	46		36	340	9.44
Divide					
Dunn	600		430	1,580	3.67
Eddy	75		55	185	3.36
Emmons	521		295	1,250	4.23
Foster	40		40	400	10.00
Grand Forks	90		90	900	10.
Griggs	3		3	18	6.
Hettinger	1,849	439	1,303	4,077	3.12
Kidder	150		70	248	3.54
LaMoure	102		102	725	7.08
Logan	594	30	443	2,362	5.33
McHenry	55		50	230	4.6
McIntosh	3		3	10	3.33
McKenzie	280		224	335	1.49
McLean	55		41	3	.07
Mercer	30		22	136	6.18
Morton	204		204	1,164	5.70
Mountrail	130		70	360	5.14
Nelson	12	2	10	30	3.
Oliver					
Pembina	379	25	141	353	2.50
Pierce	161		106	628	5.92
Ramsey	200		165	1,362	8.25
Ransom					
Renville	110		101	975	9.65
Richland	40	40			
Rolette	14		4	40	10.
Sargent	341	69	172	427	2.48
Sheridan	46		46	825	17.93
Stark	20		20	200	10.
Steele	607		532	2,132	4.
Stutsman	82		80	317	3.9625
Towner	105		105	780	7.42
Trail	111		53	289	5.45
Walsh	122		109	520	4.77
Ward	888		406	1,350	3.32
Wells	42		42	168	4.
Williams					
Totals	10,280	1,065	6,870	31,090	4.52

WINTER RYE, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	43		34	232	6.82
Barnes	81		70	715	10.21
Benson	75		20	160	8.
Billings					
Bottineau	740		740	2,597	3.44
Bowman					
Burke	33	17	16	119	7.4375
Burleigh	263	10	61	400	6.55
Cass	8,912		9,213	130,850	14.20
Cavaller	49		45	300	6.66
Dickey	68		28	280	10.
Divide	87 1/2		87 1/2	970	11.08
Dunn					
Eddy	50		50	315	6.3
Emmons	114		80	930	11.625
Foster	125		90	500	5.55
Grand Forks	96		77	151	1.96
Griggs	295		270	2,900	10.96
Hettinger					
Kidder	412	30	318	1,550	4.87
LaMoure	329		319	3,540	11.09
Logan					
McHenry	2,698	60	2,525	8,805	3.48
McIntosh	10		10	60	6.
McKenzie	1		1	15	15.
McLean	192		192	886	4.61
Mercer					
Morton	22		4	32	8.
Mountrail	51		51	366	7.17
Nelson	370		311	1,458	4.68
Oliver	20	20			
Pembina	1,285		1,016	13,075	10.87
Pierce	506	10	351	1,248	3.55
Ramsey	944		459	2,138	4.65
Ransom	275		220	2,845	12.93
Renville					
Richland	2,189		2,094	26,418	12.61
Rolette					
Sargent	456		319	2,667	8.36
Sheridan	177		153	626	4.09
Stark	10		10	100	10.
Steele	50		50	250	5.
Stutsman	397				
Towner	100		70	415	5.92
Traill	1,884		964	11,616	12.05
Walsh	634	40	441	5,088	11.53
Ward	31 1/2		51 1/2	288	5.59
Wells	10				
Williams	181		159	692	4.35
Totals	24,266	187	20,970	246,626	11.76

SPELTZ, 1910.

County	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	679		463	2,104	4.54
Barnes	615		525	7,000	13.33
Benson	317	73	145	1,474	10.16
Billings	1,181	92	1,089	20,988	19.27
Bottineau	537		438	3,287	7.50
Bowman	398		319	2,685	8.41
Burke	187	6	181	1,575	8.70
Burleigh	4,274	404	1,521	9,867	6.48
Cass	315		200	1,525	7.625
Cavaller	183	107	59	525	8.89
Dickey	6,074		5,704	42,460	7.44
Divide	366		353	2,668	7.55
Dunn	88		88	654	7.43
Eddy	1,043		869	5,583	6.42
Emmons	5,903		3,865	17,117	4.43
Foster	1,390	125	966	9,429	9.76
Grand Forks	388		301	3,710	12.32
Griggs	392		344	4,850	14.09
Hettinger	543		516	2,016	3.90
Kidder	2,113	380	960	4,636	4.82
LaMoure	3,817		3,317	31,820	9.59
Logan	6,002	377	5,625	43,433	7.72
McHenry	690	102	479	3,276	6.83
McIntosh	8,204		7,624	66,977	8.78
McKenzie	105		78	1,035	13.26
McLean	1,314		793	6,748	8.50
Mercer	293		259	1,425	5.50
Morton	1,179		569	2,951	5.18
Mountrail	436		435	5,198	11.94
Nelson	322	45	223	1,825	8.18
Oliver	193	163	30	137	4.56
Pembina	18		18	100	5.55
Pierce	258	100	127	822	6.47
Ramsey	625		519	4,208	8.10
Ransom	1,386		1,296	25,807	19.91
Renville	352		221	1,804	8.16
Richland	534		534	9,902	18.54
Rolette	91	30	28	249	8.89
Sargent	4,163		3,712	51,602	13.90
Sheridan	865	77	490	2,282	4.64
Stark	381		380	1,723	4.53
Steele	147		127	1,411	11.11
Stutsman	2,504		1,898	13,386	7.05
Towner	987	474	488	2,576	5.27
Traill					
Walsh	35		35	208	5.94
Ward	569		378	2,179	5.76
Wells	1,069	80	680	4,468	6.54
Williams	891		647	5,187	8.01
Totals	64,401	2,635	49,916	436,892	9.15

CORN—1910.

COUNTY	Acres Planted	Cut For Fodder	Acres Husked	Bushels Husked
Adams	2,436 $\frac{1}{2}$	1,405 $\frac{1}{2}$	440	4,000
Barnes	11,841	10,592	663	10,051
Benson	1,811	1,580	118	1,940
Billings	1,122	648	524	9,482
Bottineau	2,727	2,627	100	570
Bowman	1,690	1,341	484	3,764
Burke	867	1,377	23	575
Burleigh	10,406	4,481	3,522	29,151
Cass	32,974		2,838	30,410
Cavalier	462	436	57	500
McKey	10,192	6,889	2,415 $\frac{1}{2}$	34,787
Divide	231 $\frac{1}{2}$		14	770
Dunn	5,953	99	50	8,147
Eddy	546	489	63	1,900
Emmons	8,937	3,932	2,691	27,473
Foster	2,528	2,234	64	1,605
Grand Forks	13,704	12,978	164	1,748
Griggs	838 $\frac{1}{2}$	814 $\frac{1}{2}$	4	177
Hettinger	942 $\frac{1}{2}$	300	495 $\frac{1}{2}$	5,265
Kidder	2,197	885	566	5,934
LaMoure	5,704	4,997	643	4,875
Logan	589 $\frac{1}{2}$	108	302 $\frac{1}{2}$	3,781
McHenry	3,380	2,709	396 $\frac{1}{2}$	4,657
McIntosh	560	215	597	6,309
McKenzie	831	616	218	3,432
McLean	4,546	3,296	1,228	12,986
Mercer	1,203	202	477	7,504
Morton	5,904	1,959	2,152	20,704
Mountrail	202	171	15	413
Nelson	2,128	1,834 $\frac{1}{2}$	5	260
Oliver	2,318	1,183	840 $\frac{1}{2}$	12,468
Pembina	7,400	7,110	243	1,470
Pierce	1,518	1,212	115	1,486
Ramsey	2,560	2,473	103	625
Ransom	8,568	6,667 $\frac{1}{2}$	1,712 $\frac{1}{2}$	32,530
Renville	1,435	1,481		
Richland	25,126	14,481	9,070	243,835
Rolette	214	207		48
Sargent	8,648	6,518	2,130	50,356
Sheridan	851	486	227	1,142
Stark	1,499	456	1,334	17,016
Steele	4,541.50	4,375.50	110	1,165
Stutsman	4,895 $\frac{1}{2}$	2,023 $\frac{1}{4}$	556	5,566
Towner	903	711	39	1,070
Traill	9,661	9,454	496	3,230
Walsh	6,424 $\frac{1}{2}$	6,111 $\frac{1}{2}$	113	2,010
Ward	2,001 $\frac{1}{2}$	2,293	60 $\frac{1}{2}$	855
Wells	3,441	2,978	206	3,077
Williams	743 $\frac{1}{4}$	465 $\frac{1}{4}$	111 $\frac{1}{2}$	1,474
Totals	230,197 $\frac{1}{2}$	139,902	39,656	622,591

POTATOES—1910.

COUNTY	Acres Planted	Bushels Dug	Av. Yield Bushels Dug
Adams	484 $\frac{1}{4}$	20,167	41.64
Barnes	1,342	55,798	41.57
Benson	686	26,691	38.90
Billings	620	45,507	73.39
Bottineau	846	50,733	58.78
Bowman	405	19,527	48.21
Burke	435 $\frac{1}{4}$	37,951	87.19
Burleigh	1,051	31,941	30.39
Cass	3,347 $\frac{1}{4}$	99,660	29.84
Cavaller	796	35,218	44.24
Dickey	659	23,738	36.02
Divide	264 $\frac{1}{2}$	30,697	116.06
Dunn	226	14,729	65.17
Eddy	538	14,652	27.23
Emmons	385	9,227	23.96
Foster	568 $\frac{1}{2}$	21,712	38.19
Grand Forks	4,635	124,328	26.82
Griggs	412 $\frac{1}{2}$	20,357	49.35
Hettinger	834 $\frac{1}{4}$	21,365	25.72
Kidder	361	8,512	23.57
LaMoure	756	27,582	36.48
Logan	404 $\frac{1}{4}$	7,770	19.22
McHenry	1,674	21,824	13.03
McIntosh	370	6,313	17.06
McKenzie	334	21,102	63.17
McLean	412	41,027	99.58
Mercer	149	5,882	39.47
Morton	1,424	37,181	26.11
Mountrail	500	34,422	68.84
Nelson	1,099 $\frac{1}{4}$	23,859	21.70
Oliver	330	12,112 $\frac{1}{2}$	36.70
Pembina	1,358	85,564	63.00
Pierce	316	20,831	65.92
Ramsey	922 $\frac{2}{3}$	3,800	4.11
Ransom	630 $\frac{1}{4}$	23,175	36.77
Renville	276 $\frac{6}{24}$	17,787	64.51
Richland	1,444	68,767	47.62
Rolette	486	28,275	48.25
Sargent	548	22,571	41.18
Sheridan	482	14,087	29.22
Stark	620	29,039	46.83
Steele	503	28,464	56.58
Stutsman	1,599	33,680	21.06
Towner	811	39,198	48.33
Trall	730	41,070	56.26
Walsh	2,130 $\frac{1}{6}$	88,894	41.73
Ward	940 $\frac{1}{4}$	3,948	4.19
Wells	794	35,357	44.53
Williams	830 $\frac{1}{3}$	44,426 $\frac{1}{2}$	53.50
Totals	41,872	1,580,518	37.71

ROOTS OF ALL KINDS—1910.

COUNTY	Acres	Busbels
	Planted	Dug
Adams	169 1/4	1,008
Barnes	35	
Benson	11 1/2	838
Billings	7	318
Bottineau	6	383
Bowman	26	607
Burke	1 1/2	361
Burleigh	23	662
Cass	4 1/2	63 1/2
Cavalier	17	2,188
Dickey	4 1/2	270 1/2
Divide	22 1/2	1,620
Dunn	7	181 1/2
Eddy	8	84 1/2
Emmons	2	365
Foster	13 1/4	420
Grand Forks	6 1/2	157
Griggs	1/2	357
Hettinger	249 1/2	329
Kidder	2	
LaMoure		
Logan		
McHenry	7 1/2	501
McIntosh		
McKenzie	60	100
McLean	7	623
Mercer		
Morton	37	506
Mountrail	360	615
Nelson	1/2	81
Oliver	5 1/2	78
Pembina	15	4,565
Pierce	7	186
Ramsey	3	332
Ransom		
Renville	14 1/4	20
Richland	33	184
Rolette	90	3,368
Sargent	6	36
Sheridan	51	412
Stark	9	650
Steele	16	125
Stutsman	7	566
Towner	11	741
Trall		
Walsh	6 1/2	433
Ward	6 1/2	215
Wells	38	576
Williams	162	1,166
Totals	1,568 1/4	26,311
		329
		26,640

HAY AND MILLET—1910.

COUNTY	Acres	Acres	Tons Cut
	Sown	Plowed U'p	
Adams	192 ¾	.....	36 ½
Barnes	6,659	.....	4,237
Benson	2,781	242	1,946
Billings	258	17	304
Bottineau	827	.....	700
Bowman	91	.....	51
Burke	60	.....	44
Burleigh	425	59	310
Cass	1,957	.....	64,872
Cavaller	341	.....	210
Dickey	858 ½	.....	290
Divide	50	.....	41
Dunn	58 ¾	.....	58
Eddy	2,058	.....	984
Emmons	17	.....	20
Foster	2,891	85	1,878
Grand Forks	5,562	.....	2,128
Griggs	2,373	60	2,545
Hettinger	45	.....	58
Kidder	112	.....	95
LaMoure	2,630	.....	1,331
Logan	48	.....	10
McHenry	915	128	488
McIntosh	5	.....	.....
McKenzie	55	.....	33
McLean	493	.....	537
Mercer	73	.....	10
Morton	1,359	.....	460
Mountrail	54	.....	61
Nelson	638	140	238 ½
Oliver	212 3/14	.....	115
Pembina	1,425	221	1,005
Pierce	920	19	605
Ramsey	1,536	.....	815
Ransom	1,689	24	1,330
Renville	196 ½	.....	179
Richland	2,996	.....	2,624
Rolette	168	10	63
Sargent	1,529	.....	2,310
Sheridan	450	10	266
Stark	104	.....	155
Steele	3,024 ¼	76	2,745
Stutsman	2,552	.....	1,227
Towner	930	45	747
Trall	4,995	60	3,226
Walsh	4,901 ½	1,514	1,376 ½
Ward	556	.....	217 ½
Wells	6,799	98	4,705
Williams	53 ½	.....	29
Totals	69,830 ½	2,809	107,716

HAY—HUNGARIAN—1910—Continued.

COUNTY	Acres Sown	Acres Plowed Up	Tons Cut
Adams	1		
Barnes	123		36
Benson	13		10
Billings			
Bottineau	18		13
Bowman			
Burke			
Burleigh			
Cass	53		85
Cavalier			
Dickey			
Divide			
Dunn			
Eddy	30		12
Emmons			
Foster	10		
Grand Forks	100		39
Griggs	130		254
Hettinger			
Kidder			
LaMoure	218		42
Logan			
McHenry			
McIntosh			
McKenzie			
McLean	10		10
Mercer			
Morton	27		4
Mountrail			
Nelson	13		13
Oliver			
Pembina	403		387
Pierce	30		
Ramsey	27		12
Ransom			
Renville			
Richland	14		
Rolette			
Sargent	19		35
Sheridan			
Stark			
Steele	1.6		10
Stutsman	2,278		66
Towner			
Traill	232	25	142
Walsh	3,132 1/2	1,272	388 1/2
Ward			35
Wells			
Williams			
Totals	6,997 1/2	1,297	1,593 1/2

HAY—1910—CLOVER—Continued.

COUNTY	Acres Sown	Acres Plowed Up	Tons Cut
Adams	7 ½		
Barnes	153		192
Benson	151	70	20
Billings	25		3
Bottineau	145		60
Bowman			
Burke			43
Burleigh	22		
Cass	6,749		5,356
Cavaller	96	20	6
Dickey	1,100		4
Divide	2		
Dunn	9 ½		18
Eddy	163		168
Emmons			
Foster	7		31 ½
Grand Forks	908		241
Griggs	41 ½		12
Hettinger	1 ½		2
Kidder	10		20
LaMoure	141		85
Logan			
McHenry	64		126
McIntosh			
McKensie			
McLean	40		43
Mercer			
Morton	11		
Mountrail			
Nelson	271	52	28
Oliver	3		½
Pembina	1,419	45	940
Pierce	16		
Ramsey	324		314
Ransom	67		33
Renville			
Richland	771		614
Rolette	79		67
Sargent	73		90
Sheridan	2		
Stark	55		65
Steele	380	70	120 ½
Stutsman	41		34
Towner	62	235	397
Trall	1,044	40	719
Walsh	1,866	40	719
Ward	17		21
Wells	120		
Williams			
Totals	15,956 ½	532	9,873 ½

HAY—1910—TIMOTHY—Continued

COUNTY	Acres	Acres	Tons
	Sown	Plowed Up	Cut
Adams	91	.....	30
Barnes	3,564	.....	1,493
Benson	824	108	38
Billings	227	.....	123
Bottineau	3,761	.....	720
Bowman	124	.....	45
Burke	718	.....	306
Burleigh	371	74	66
Cass	22,271	.....	12,944
Cavaller	2,064	552	922
Dickey	2,848	.....	800
Divide	12	.....	.....
Dunn	24	.....	.....
Eddy	807	.....	124
Emmons	52	.....	93
Foster	376	10	256
Grand Forks	12,596	.....	3,822
Griggs	707	36	318
Hettinger	337 ½	.....	67
Kidder	80	6	.....
LaMoure	3,734	.....	1,367
Logan	20	.....	½
McHenry	2,035	206	304
McIntosh	3	.....	.....
McKenzie	35	.....	16
McLean	221	.....	92
Mercer	10	.....	.....
Morton	48	.....	28
Mountrail	152	.....	119
Nelson	1,190	160	79
Oliver	127	.....	29
Pembina	22,788	248	19,098
Pierce	199	.....	7
Ramsey	1,035 ½	.....	149
Ransom	5,077	18	3,480
Renville	825	.....	91
Richland	11,400	.....	8,912
Rolette	375	10	70
Sargent	3,277	.....	1,970
Sheridan	44	15	17
Stark	401	.....	411
Steele	2,962 ½	115	1,539
Stutsman	618	.....	283
Towner	544	120	131
Trall	25,817	400	8,622
Walsh	13,288	364	7,860
Ward	789	.....	154
Wells	1,169	55	120
Williams	368	.....	310
Totals	150,206 ½	2,497	77,133

HAY—1910—ALFALFA—Continued.

COUNTY	Acres Sown	Acres Plowed Up	Tons Cut
Adams	83 ¾		17
Barnes	125		38
Benson	48 ½		18
Billings	90		45
Bottineau	122		76
Bowman	32		73
Burke	32		32
Burleigh	34	8	60
Cass	342		91 ½
Cavallier	231 ½		
Dickey	254		62 ½
Divide	8 ¾		2 ½
Dunn	22 ½		47
Eddy	315		20
Emmons	36		5
Foster	52 ½		42
Grand Forks	194		151
Griggs	33		30
Hettinger	20 ¾		10
Kidder	185		75
LaMoure	36		27
Logan			
McHenry	85	11	163
McIntosh			
McKenzie	100		229
McLean	46		24
Mercer	1		1 ½
Morton	83		12
Mountrail	5		2
Nelson	22 ½	2	20 ½
Oliver	3 ¾		13
Pembina	2 ½		16
Pierce	8	6	8
Ramsey	109 ¾		17
Ransom	36 ½		92
Renville	16 ½		1
Richland	54		24
Rolette	29		
Sargent	57		48
Sheridan	1		3
Stark	120		175
Steele	22		51
Stutsman	206 ¾		297
Towner	42		4
Trall	403		
Walsh	259	6	41
Ward	64 ¾		116
Wells	57		5
Williams	398 ¾		357 ½
Totals	4,810 ¼	33	2,642 ¾
			40
			2,602 ¾

HAY—1910—BROME GRASS—Continued.

COUNTY	Acres	Acres	Tons
	Sown	Plowed Up	Cut
Adams	2	.....	1
Barnes	1,220	.....	311
Benson	267	14	13
Billings	111	.....	52
Bottineau	1,143	.....	153
Bowman	12	.....	4
Burke	327	.....	145
Burleigh	182	.....	3
Cass	255	.....	122
Cavaller	446	55	180
Dickey	768 $\frac{1}{4}$	.....	67
Divide	77	.....	27 $\frac{1}{2}$
Dunn	96	.....	59
Eddy	378	.....	72
Emmons	55	.....	69
Foster	901	.....	80
Grand Forks	707	.....	221
Griggs	790	20	331
Hettinger	128	.....	26
Kidder	214	.....	.....
LaMoure	714	.....	203
Logan .....	.....	.....	.....
McHenry	588	7	238 $\frac{1}{4}$
McIntosh	64	.....	16
McKenzie	125	.....	.....
McLean	692	.....	54
Mercer .....	.....	.....	.....
Morton	39	.....	33
Mountrail	112	.....	38
Nelson	433	139	89
Oliver	11	.....	2
Pembina	128	.....	50
Pierce	264	.....	22
Ramsey	370	.....	19
Ransom	122 $\frac{1}{2}$	10	99 $\frac{1}{4}$
Benville	38	.....	24 $\frac{1}{2}$
Richland	74	.....	34
Rolette	383	3	24 $\frac{1}{2}$
Sargent	10	.....	20
Sheridan	142	76	16
Stark	640	.....	1,090
Steele	709 $\frac{1}{2}$	10	434
Stutsman	1,665	.....	176
Towner	971	.....	31
Trall	381	.....	225
Walsh	820	.....	283
Ward	256	.....	56
Wells	1,453	50	201
Williams	216 $\frac{1}{2}$	.....	77
Totals	19,510 $\frac{1}{2}$	384	5,504

HAY—1910—Continued.

COUNTY	Other Tame Hay		Tons Cut	Wild Prairie Hay
	Acres Sown	Acres Plowed Up		Tons Cut
Adams	5	.....	.....	16,777
Barnes	446	.....	716	34,744
Benson	84	.....	207	21,112
Billings	50	.....	179	23,077
Bottineau	668	.....	442	20,125
Bowman	20	.....	3	10,659
Burke	65	.....	423	9,383
Burleigh	20	.....	684	52,851
Cass	1,709	.....	1,933	13,470 1/2
Cavalier	54	.....	.....	26,831
Dickey	194	.....	25	40,203
Divide	21	.....	1,273	20,092
Dunn .....	.....	.....	.....	33,355
Eddy	85	.....	201	22,441
Emmons .....	.....	.....	.....	55,982
Foster	63	.....	50	7,842
Grand Forks	2,290	.....	1,996	19,847
Griggs	360	.....	263	17,100
Hettinger	79	.....	14	28,848
Kidder	4	33	5,915	33,333
LaMoure	399	.....	415	37,723
Logan .....	.....	.....	.....	59,405
McHenry	788	.....	581 1/2	39,717
McIntosh .....	.....	.....	.....	45,250
McKenzie .....	.....	.....	.....	28,321
McLean	32	.....	20	50,751
Mercer .....	.....	.....	.....	17,160
Morton	56	.....	3,412	62,340
Mountrail	948	.....	125	20,380
Nelson	117	.....	67	28,831
Oliver	26	.....	150	19,823
Pembina	695	.....	1,042	68,230
Pierce	117	.....	275	25,788
Ramsey	186	.....	87	31,507 1/2
Ransom	40	.....	539	30,826
Renville	54	.....	41	5,523
Richland	2,319	.....	3,260	42,520
Rolette	296	.....	84	20,224
Sargent	201	.....	39	39,196
Sheridan	20	.....	3	20,692
Stark	264	.....	2,376	42,970
Steele	179	.....	235	15,228
Stutsman	272	.....	164	66,022
Towner	200	.....	261	16,302
Trall	275	10	394	3,617
Walsh	1,736	.....	2,487	22,207 1/2
Ward	215	.....	72	20,326
Wells	750	.....	697	24,292
Williams	154	.....	350	29,551
Totals	16,562	43	31,566 1/2	1,443,088 1/2

ACREAGE LOST BY HAIL—1910.

COUNTY	Acres Total Loss	Acres Three- Quarter Loss	Acres Half Loss	Acres One- Quarter Loss	Total Acreage Affected
Adams	369	142	101	428	1,040
Barnes	1,844	5,153	5,892	4,062	16,951
Benson	43,052	4,317	1,883	1,445	50,697
Billings	1,814	1,767	959	1,146	5,686
Bottineau	13,074	12,689	6,070	3,480	35,313
Bowman	409	699	609	939	2,656
Burke	126	160	.....	22	308
Burleigh	195	2,270	60	40	295
Cass	1,725	.....	10,686	5,560	20,241
Cavalier	2,445	3,125	165	30	5,765
Dickey	11,345	1,189	3,891	1,162	17,587
Divide	3,517 ½	1,423	1,038	3,067	9,045 ½
Dunn	1,064	1,455 ½	711	1,147	4,377 ½
Eddy	5,283	5,415	3,491	4,158	18,347
Emmons .....	.....	.....	.....	.....	.....
Foster	1,470	60	750	495	2,775
Grand Forks	38,086	2,494	1,490	600	42,670
Griggs	27,164	9,841	7,417	7,412 ½	51,834 ½
Hettinger	807	293	545	160	1,805
Kidder	754	286	506	794	2,340
LaMoure	10,384	1,638	1,918	2,242	16,182
Logan	185	.....	.....	.....	185
McHenry	9,786	6,742	2,967	1,318	20,813
McIntosh	20	1,875	2,474	712	5,081
McKenzie .....	.....	.....	.....	.....	.....
McLean	43,116	4,212	2,088	633	50,049
Mercer	4,337	702	2,431	593	8,063
Morton	305	344	113	230	992
Mountrail	200	594	479	2,441	3,714
Nelson	32,777	7,126	1,125	540	41,568
Oliver	6,990	1,201	347	20	8,558
Pembina	765	1,040	15	430	2,250
Pierce	10,680	1,050	1,725	1,750	15,205
Ramsey	1,260	90	380	.....	1,730
Ransom	2,516 ½	800	320	985	4,621
Renville	3,880	1,465	2,045	1,800	9,190
Richland	5,442	5,345	4,785	3,295	18,867
Rolette	5,346	375	2,805	95	8,621
Sargent	21,837	9,067	3,172	1,423	35,499
Sheridan	20,095	6,033	512	73	26,713
Stark	1,485	622	1,138	448	3,693
Steele	4,490	3,325	4,510	3,050	15,375
Stutsman	31,365	3,125	1,544	965	36,999
Towner	9,673	2,125	1,065	3,905	16,768
Trall	462	150	20	866	1,498
Walsh .....	.....	.....	.....	129 ½	129 ½
Ward	1,866	1,120	389	841	4,216
Wells	16,922	1,990	1,545	1,678	22,135
Williams	10,172	2,867 ½	3,908	3,240	20,187 ½
Totals	410,899 ¾	117,812 ¼	90,084	71,515 ½	1,379,166 ¾

ACREAGE FOR 1911.

COUNTY	SPRING WHEAT	DURUM WHEAT	WINTER WHEAT	FLAX	OATS
Adams	67,824	5,291	198 ½	20,760	16,545 ½
Barnes	307,490	48,618	357	22,161	69,022
Benson	247,899	2,625	.....	29,313	43,005
Billings	136,532	1,332	.....	69,650	42,949
Bottineau	378,517	.....	79	51,592	77,415
Bowman	60,672	1,288	168	19,961	13,737
Burke	117,261	120	.....	17,302	26,388
Burleigh	93,941	2,437	16	24,283	22,151
Cass	364,506	34,214	3,105	16,992	83,188
Cavalier	266,780	8	.....	15,136	84,967
Dickey	113,519	131,870	204	26,932	27,588
Divide	119,564	.....	292	26,636	22,554 ½
Dunn	55,992	65	45	32,110	15,325
Eddy	101,366	7,770	135	14,386	28,864
Emmons	144,203	2,223	44	18,053	14,278
Foster	122,530	13,469	100	11,805	38,926
Grand Forks	358,088	1,148	200	20,324	80,263
Griggs	168,845	5,901	150	19,420	37,995
Hettinger	93,554	647	23	28,944	22,570
Kidder	65,644	3,155	60	26,492	16,077
LaMoure	196,713	128,482	315	29,149	40,953
Logan	92,191	7,231	323	24,012	7,753
McHenry	203,003	150	2	16,997	44,579
McIntosh	101,220	705	135	18,221	5,688
McKenzie	51,118	363	707	23,754	14,954
McLean	190,290	675	.....	49,655	43,044
Mercer	41,409	.....	.....	11,721	9,715
Morton	299,898	502	133	28,138	47,036
Mountrail	103,173	407	.....	26,054	23,391
Nelson	222,386	1,507	95	25,531	47,129
Oliver	38,465	6	80	6,512	10,688
Pembina	191,941	55	83	14,275	64,711
Pierce	247,374	55	3	13,663	44,284
Ramsey	272,190	10	57	32,663	46,835
Ransom	98,643	97,668	703	7,918 ½	35,871
Renville	104,120	309	150	27,238	24,542
Richland	232,878	4,406	64	18,628	71,160
Rolette	155,925	100	10	13,056	34,635
Sargent	69,765	76,541	1,476	16,283	28,860
Sheridan	142,032	502	.....	17,457	30,701
Stark	109,537	1,876	213	25,346	23,355
Steele	181,664	10,617	2,190	12,951	37,544
Stutsman	294,450	24,815	471	44,905	88,932
Towner	285,375	875	528	30,811	57,688
Traill	157,807	1,991	530	4,000	35,990
Walsh	302,975	65	101	17,535	67,014
Ward	192,672	2,293	2,197	32,893	43,482
Wells	274,483	18,004	20	25,353	62,276
Williams	163,168 ½	355	80	20,791	30,791
Totals	8,402,492 ½	642,745	15,842 ½	1,142,777 ½	1,907,389

ACREAGE FOR 1911—Continued.

COUNTY	BARLEY	FULL-LESS BARLEY	SPRING RYE	WINTER RYE	SPELTZ
Adams	1,712	24½	3	25½	1,017
Barnes	31,958	4	161	914	1,049
Benson	21,584	1,077	115		302
Billings	2,700	30	14	8	1,815
Bottineau	17,446	86	119	283	785
Bowman	1,583	9	8	8	84
Burke	846	38	72	19	116
Burleigh	1,815	19	1,141	616	3,740
Cass	38,538		230	5,001½	984
Cavaller	44,499	6	31	38	276
Dickey	25,358	142	72	732	6,746
Divide	1,073½	44	205	78	288
Dunn	1,233½	37	30		180
Eddy	8,167	10	250	238	1,357
Emmons	10,083	18	241	350	7,797
Foster	16,132	335	581	324	1,105
Grand Forks	34,017	210	12	268	431
Griggs	20,987		95	247	419
Hettinger	1,245	42	74½	46½	645
Kidder	5,852	35	2,659	3,767	1,699
LaMoure	24,662	35	201	665	3,783
Logan	10,808	45	297	145	5,842
McHenry	8,031	184	490	2,038	683
McIntosh	12,303	2	184	12	7,855
McKenzie	1,063				195
McLean	4,943	19	287	155	1,414
Mercer	1,465		15		313
Morton	3,478	92	59	52	1,634
Mountrail	2,102	35	287	10	515
Nelson	30,118		75		635
Oliver	1,456½	½	7		250
Pembina	55,507	160	105	501	15
Pierce	14,810		185	469	444
Ramsey	36,141	299	36	271	950
Ransom	7,905	73	374	435	1,729
Renville	1,663				345
Richland	30,270		83	3,365	540
Rolette	15,596		50		110
Sargent	11,686	38	51	666	3,706
Sheridan	3,787	26	177	33	796
Stark	3,363	35	83	23	772
Steele	17,135	15	15	120	321
Stutsman	25,580	198	576	622	1,717
Towner	31,844	80	20	163	878
Trall	18,618	5		1,545	108
Walsh	42,430	32	53	452	109½
Ward	3,109½	28	180	96½	926½
Wells	25,289	330	422	107	1,243
Williams	2,197	55	30	275	974½
Totals	733,168½	3,903	10,435½	25,184	69,638½

ACREAGE FOR 1911—Continued.

COUNTY	CORN	POTATOES	ROOTS OF ALL KINDS	MILLET	(HUNGARIAN)
Adams	5,538 1/3	421 1/4	37 1/2	3,777 1/4	5
Barnes	23,403	1,176	10	6,510	129
Benson	4,582	641	102 1/2	3,222	62
Billings	4,634	753	25	621	7
Bottineau	10,188	919	21 1/4	1,034 1/4	41
Bowman	673	3,124	70 1/4	111	.....
Burke	4,729	565	14 1/2	71	.....
Burleigh	12,789	827	159	810	21
Cass	54,282	2,767 3/8	21 3/4	2,605	8
Cavaller	1,923	781	29	104	8
Dickey	19,086 1/4	638	30	1,687	6
Divide	2,091 3/4	454 1/5	29 3/4	163	.....
Dunn	2,119	282 3/4	79 1/4	211 1/2	.....
Eddy	2,123	359	11 3/8	2,385	5
Emmons	14,658	469	3	782	.....
Foster	4,589	469 3/4	9 1/2	3,302	52
Grand Forks	23,528	2,105	26	5,811	158
Griggs	3,481 1/4	403 3/4	3 1/8	2,912 1/2	165
Hettinger	2,545	429 1/2	15	319	2
Kidder	4,972	341	3	567	.....
Lamoure	12,306	758	4	3,485	253
Logan	1,276 3/4	346 3/4	7	114 1/2	.....
McHenry	7,363 1/2	1,081 1/2	40 3/4	580	25
McIntosh	1,944	361	.....	45	.....
McKenzie	3,205	519	268	152	23
McLean	9,349	732	9	1,049	.....
Mercer	2,058	165 1/4	.....	163	.....
Morton	10,949	1,177	70	1,880	.....
Mountrail	1,040	733	50	199	11
Nelson	5,723 1/4	801 1/4	2	860 1/4	33
Oliver	5,256	380	30	792	.....
Pembina	11,308	1,249	12	1,674	670
Pierce	3,375	490	7	1,442	.....
Ramsey	16,871 3/4	835	6 1/4	1,525	45
Ransom	17,746 3/4	607 1/2	.....	1,937	.....
Renville	5,608	614	4	219	.....
Richland	36,179	1,642	3 1/2	3,153	14
Bolette	1,058	830	64 1/4	273	.....
Sargent	17,984	834	2	2,517	53
Sheridan	2,361	524	71	730	.....
Stark	3,514	603	15,476	376	4
Steele	9,143 3/8	471 7/24	1/4	4,629	136
Stutsman	13,949	1,209 3/4	32	3,782	388 1/2
Towner	2,408	830	42	1,145	.....
Trall	15,681	694	4	5,303	355
Walsh	14,097 1/2	2,054 1/3	14 5/8	5,533 1/2	3,598
Ward	8,026 3/4	1,279 2/5	131 3/4	665	25
Williams	2,963 1/2	1,050 2/3	65	157	3
Wells	8,257	804	46	8,016	.....
Total	452,936 17/24	41,553 4/15	17,163 1/8	86,001 3/4	6,302 1/2

ACREAGE FOR 1912—Continued.

COUNTY	Clover	Timothy	Alfalfa	Brome Grass	Other Tame Grasses	Total Acreage of crop Including Tame Grasses
Adams	19 ½	108 ½	131 ½	9	3 ½	120,049 5/6
Barnes	286	1,885	211	608	186	516,138
Benson	172	332	61	206	141	365,441 1/2
Billings	92	457	145	129	34	261,927
Bottineau	42	2,035	35 ½	525	595	541,708
Bowman	1	170	177	85	44	101,923 1/4
Burke	16	315	10	172	121	168,175 1/2
Burlingame	155	285	128	123	27	165,483
Cass	5,857 ½	16,074 ½	255	650	204	629,476 1/8
Cavalier	57	1,457	93	227	169	416,589
Dickey	12 ½	1,210	230 ½	248 ½	96	356,427 1/2
Divide	29	58	63 ½	52	5 ½	173,680 1/5
Dunn	118	24	32 ½	46	.....	107,930
Eddy	177	659	77 ½	391	95	168,825 7/8
Emmons	10	40	59	7	2	213,300
Foster	105	194	37	190	163	214,418 1/4
Grand Forks	1,405	5,683	107	504 ½	956	536,144
Griggs	50	480 ½	75 ½	481 ½	340	282,452 1/8
Hettinger	6	305 ½	20	131	34	151,598 1/4
Kidder	13	21	11	206	3	171,015
LaMoure	163	2,931	81	708	48	445,700
Logan .....	.....	145	.....	.....	.....	150,537
McHenry	34	840	135 ½	432	17 ½	448,427 1/8
McIntosh .....	.....	.....	5	25	100	148,805
McKenzie	10	117	313	12	.....	96,773
McLean	19	371	63	398	15	302,487
Mercer .....	.....	1	4	5	.....	67,034 1/4
Morton	10	103	91	71	4	395,377
Mountrail	25	121	15	70	23	158,261
Nelson	154	1,108	77	473	50	336,758
Oliver	½	111 ½	31 ½	5 ½	.....	64,021
Pembina	1,835	9,729	291	689	186	354,996
Pierce	34	222	91	116	140	326,704
Ramsey	271	694	82 ½	189 ½	222	410,192
Ransom	64 ½	3,795 ½	149 ½	146 ½	53	275,818 1/2
Renville	11	589	13 ½	131	.....	165,566
Richland	998	7,909	51	139	1,003	447,080 1/2
Rolette	31	168	17 ½	44	21	221,991 3/4
Sargent	116	2,848	60	60	75	234,621
Sheridan	26	66	7	131	5	199,432
Stark	28	518	188	765	13	186,087
Steele	415 ½	1,431 ½	32	268	10	287,403 1/8
Stutsman	29	523	218 ½	401	203	503,001 1/2
Towner	238	444	60	328	53	413,310
Trall	1,207	12,247	48	155	67	256,355
Walsh	1,069	7,620 ½	71	317	635	465,777 1/2
Ward	10	536	89	286 ½	46	288,932 2/5
Wells	44	971	87	1,006	52	426,810
Williams	64	420	730 ½	173 ½	214	224,486 5/12
Total	15,530	88,372	5,063 ½	12,486 ½	19,116 ½	13,934,448 1/2

GARDEN AND POULTRY PRODUCTS SOLD IN 1910

County	Garden Products	Poultry and Eggs
Adams	852.00	10,242.22
Barnes	941.75	26,594.82
Benson	421.75	13,851.98
Billings	629.00	7,756.35
Bottineau	1,247.00	24,984.00
Bowman	2,142.00	6,690.00
Burke	1,215.00	6,049.50
Burleigh	1,799.00	13,685.00
Cass	560.00	42,544.11
Cavaller	3,310.00	15,351.00
Dickey	330.00	324,826.00
Divide	1,317.80	4,930.80
Dunn		4,600.00
Eddy	1,584.00	4,843.00
Emmons	12,500.00	3,209.00
Foster	2,055.00	12,367.25
Grand Forks	955.00	31,658.15
Griggs	75.00	10,330.81
Hettinger	1,473.00	8,359.25
Kidder	369.00	4,760.00
LaMoure	613.00	23,395.69
Logan	165.00	5,911.45
McHenry	1,524.00	15,469.00
McIntosh	300.00	9,059.00
McKenzie	737.00	4,376.00
McLean	1,407.00	11,245.00
Mercer	535.00	3,253.29
Morton	967.00	27,475.69
Mountrail	3,648.00	7,204.85
Nelson	648.00	18,829.23
Oliver	447.00	6,683.00
Pembina	1,147.85	28,705.37
Pierce	279.17	7,433.65
Ramsey	788.00	24,105.00
Ransom	1,818.00	20,385.44
Renville	47.00	6,790.94
Richland	1,143.00	47,462.23
Rolette	4,637.00	7,019.00
Sargent	539.00	63,277.00
Sheridan	914.00	14,977.20
Stark	2,893.00	10,390.00
Steele	161.00	9,489.50
Stutsman	2,285.00	20,809.05
Towner	1,483.00	17,082.00
Trall	255.00	176.71
Walsh	1,686.00	27,701.55
Ward	875.00	4,926.13
Wells	1,305.00	19,292.75
Williams	4,276.83	18,630.85
Totals	71,850.15	1,058,971.81

DAIRY PRODUCTS—1910

County	Lbs. Butter Made in Families	Lbs. Ch'se Made in Families	Lbs. Milk Sold to Cheese Factories	Lbs. Milk Sold Creamerie.	Lbs. Cream Sold Creameries
Adams	107,826 ½	215	.....	39,000	15,990
Barnes	376,292	.....	.....	100	46,037
Benson	214,621	700	656	.....	10,700
Billings	119,220	70	.....	85	1,095
Bottineau	324,706	.....	150	.....	3,280
Bowman	78,653	2	.....	2,000	8,675
Burke	123,890	.....	.....	.....	.....
Burleigh	220,735	615	1,000	43,310	223,438
Cass	436,812	80	.....	5,800	135,842
Cavaller	272,526	250	.....	1,100	72,772
Dickey	232,431	12,050	240	4,450	112,925
Divide	168,127	340	.....	.....	.....
Dunn	20,838	400	.....	3,500	3,686
Eddy	157,683	.....	.....	1,500	33,980
Emmons	28,810	.....	.....	.....	484,795
Foster	118,119	50	.....	19,880	4,800
Grand Forks	499,769	.....	.....	4,400	148,622
Griggs	249,614	.....	.....	.....	6,700
Hettinger	914	4,980	.....	200	200
Kidder	132,574	.....	.....	7,260	412,602
LaMoure	246,103	.....	4,900	2,875	160,742
Logan	78,061	410	.....	.....	690,050
McHenry	144,567	570	10,000	70,000	9,915
McIntosh	81,355	4,366	.....	.....	322,675
McKenzie	62,419	.....	.....	.....	200
McLean	242,735	880	.....	.....	23,444
Mercer	74,666	.....	.....	.....	57,116
Morton	112,084	25,370	190,600	3,397,858	400,363
Mountrail	175,293	50	.....	350	31,750
Nelson	356,007	210	.....	4,600	38,200
Oliver	78,119	425	.....	1,271,300	265,832
Pembina	339,863	2,190	.....	9,295	246,098
Pierce	165,022	3,739	.....	.....	18,280
Ramsey	357,586	.....	.....	.....	10,690
Ransom	221,179	50	.....	2,115	170,240
Renville	72,970	.....	.....	.....	.....
Richland	298,918	680	.....	25	447,935
Rolette	269,757	2,000	.....	.....	115,405
Sargent	142,918	8,050	.....	1,035	214,979
Sheridan	204,646	940	900	13,285	74,250
Stark	118,293	250	19,410	26,808	88,338
Steele	230,166	1,380	.....	.....	30,600
Stutsman	282,949	280	2,000	10,994	171,607
Towner	2,332	.....	.....	200	8,220
Trall	254,235	175	.....	.....	155,175
Walsh	462,507	250	3,925	1,000	44,324
Ward	215,329	630	256,275	2,745	37,371
Wells	297,007	.....	200	.....	29,110
Williams	160,121	1,350	.....	5,100	32,388
Totals	9,681,367 ½	73,997	496,256	4,952,750	5,621,436

DAIRY PRODUCTS FOR 1910—Continued

County	Received for Milk and Cream Sold to Cheese Factories, Creameries or Stations	For Milk and Cream Sold Other Than Specified	Number Cows Milking —1911
Adams	3,708.18	8,144.75	2,028
Barnes	12,678.72	2,390.00	4,738
Benson	3,155.00	2,215.00	3,512
Billings	151.00	.....	2,557
Bottineau	1,495.00	949.90	4,697
Bowman	1,285.00	3,735.00	1,347
Burke	75.00	1,615.00	1,780
Burleigh	27,233.00	19,534.00	3,818
Cass	12,625.75	3,551.00	5,611
Cavaller	19,833.00	1,208.00	4,474
Dickey	21,078.00	8,414.00	3,482
Divide	20.00	933.00	1,893
Dunn .....	.....	140.00	1,795
Eddy	1,849.00	2,947.00	1,657
Emmons	52,218.00	.....	5,216
Foster	1,416.00	125.00	1,363
Grand Forks	21,847.44	15,616.60	5,928
Griggs	900.00	1,712.00	2,288
Hettinger	75.00	5,672.00	1,899
Kidder	49,080.00	413.50	3,694
LaMoure	17,184.00	11,802.00	4,130
Logan	82,428.00	.....	5,110
McHenry	1,501.00	975.00	3,795
McIntosh	70,808.60	605.00	5,686
McKenzie	60.00	20.00	1,171
McLean	9,490.00	7,611.00	4,218
Mercer	415.00	6,956.00	1,523
Morton	61,205.65	35,562.35	7,233
Mountrail	4,988.00	2,874.00	2,735
Nelson	1,818.00	4,090.00	3,990
Oliver	35,572.00	.....	2,417
Pembina	37,870.00	3,998.95	4,708
Pierce	1,083.00	2,205.00	3,065
Ramsey	1,447.00	7,073.00	.....
Ransom	16,752.90	14,398.36	3,667
Renville	50.00	650.00	1,134
Richland	39,149.00	8,461.88	7,268
Rolette	2,981.00	457.00	2,684
Sargent	44,456.00	19,944.00	4,385
Sheridan	1,844.00	1,021.00	2,847
Stark	10,010.00	8,693.00	2,370
Steele	4,288.30	1,760.00	2,634
Stutsman	29,196.72	9,166.63	5,888
Towner	1,248.00	1,180.00	2,561
Trail	7,347.00	12,430.00	3,589
Walsh	2,839.74	7,916.00	5,681
Ward	4,172.50	114.41	3,706
Wells	4,562.00	6,503.00	3,989
Williams	2,062.50	14,809.00	2,827
Totals	731,567.98	270,592.33	168,788

SHEEP AND WOOL—1910

County	No. Sheep Sheared	Pounds Wool Clipped
Adams	3,172	11,002
Barnes	239	1,769
Benson	578	4,942
Billings	26,734	211,805
Bottineau	175	1,049
Bowman	4,688	109,000
Burke	9	125
Burleigh	1,555	14,684
Cass	3,876	29,783
Cavaller	687	5,449
Dickey	851	4,943
Divide	59	522
Dunn	9,562	50,462
Eddy	551	4,886
Emmons	2,424	11,870
Foster	1,538	10,606
Grand Forks	1,840	12,867
Griggs	1,569	10,132
Hettinger	12,657	82,253
Kidder	5,081	33,409
LaMoure	499	2,917
Logan	1,401	9,252
McHenry	671	4,619
McIntosh	1,410	9,537
McKenzie	3,803	26,018
McLean	117	872
Mercer	4,765	32,104
Morton	5,667	32,250
Mountrail	134	1,043
Nelson	428	2,592
Oliver	1,318	5,949
Pembina	5,786	41,994
Pierce	21	185
Ramsey	1,295	7,213
Ransom	417	3,033
Renville		
Richland	1,030	8,887
Rolette	741	4,357
Sargent	860	7,290
Sheridan	210	1,629
Stark	693	4,372
Steele	237	1,636
Stutsman	3,185	18,685
Towner	331	2,998
Trail	1,294	7,585
Walsh	675	4,785
Ward	14	96
Wells	1,224	8,415
Williams	30	152
Totals	116,181	812,023

ORCHARDS AND FRUITS—1910

County	No. Fruit Trees in Bearing	No. Fruit Trees Not Bearing	No. Acres Berries	Received For Fruit Marketed	Acres Artificial Forests
Adams	263	521	3%	.....	234½
Barnes	149	3,015	20%	.....	3,075
Benson	122	1,018	54½	.....	1,042
Billings	769	692	139	12.00	956
Bottineau	314	1,429	7%	.....	1,403
Bowman	21	416	½	21.25	21
Burke	12	163	.....	.....	198
Burleigh	1,072	3,538	.....	.....	113
Cass	202	3,983	1,486	.....	754½
Cavalier	218	594	2½	.....	558
Dickey	955	1,919	4	5.00	411
Divide	64	20	.....	.....	173 33/40
Dunn	.....	10	2	100.00	54
Eddy	277	1,047	9 5/6	.....	661½
Emmons	10	110	.....	.....	11
Foster	17	177	3%	.....	396
Grand Forks	1,014	4,499	939	598.00	4,181
Griggs	109	1,244	½	.....	473½
Hettinger	259	433	3%	.50	408½
Kidder	19	227	15	.....	33
LaMoure	247	3,952	53	100.00	901
Logan	80	279	.....	.....	62%
McHenry	210	2,594	438½	.....	604%
McIntosh	250	900	10	15.00	50
McKenzie	.....	95	1	.....	14
McLean	43	230	1	.....	200
Mercer	98	360	1%	.....	2,705½
Morton	2,857	2,134	1,247	.....	10,477
Mountrail	3	130	½	.....	117
Nelson	135	1,093	8½	.....	927%
Oliver	290	1,519	8	.....	386
Pembina	492	1,180	.....	.....	6403
Pierce	55	3,051	12	.....	1,165
Ramsey	51	1,247	2	.....	1,064
Ransom	432	2,327	3½	.....	473
Renville	2	214	1	.....	17%
Richland	2,737	7,364	15	50.00	1,270½
Rolette	23	283	30%	.....	666
Sargent	11,178	13,798	114	9.00	961
Sheridan	99	1,397	.....	.....	.....
Stark	370	308	1,048	.....	55
Steele	384	1,850	3%	.....	877%
Stutsman	40	1,174	89½	24.00	540½
Towner	58	236	2%	.....	955
Trall	157	2,214	11½	30.00	1,338½
Walsh	1,581	5,371	433	309.75	2,165½
Ward	36	612	54½	24.00	355%
Wells	317	3,695	747	86.00	1,370
Williams	302	619	4	.....	535%
Totals	28,393	76,281	7,0291/12	1,334.50	51,766

LIVE STOCK—1911

County	Horses	Mules	Cattle	Sheep	Hogs
Adams	5,432	159	6,164	2,536	3,037 ½
Barnes	15,240	98	13,695	396	7,054
Benson	11,786	94	8,332	962	3,872
Billings	12,236	113	17,561	30,282	4,045
Bottineau	18,272	362	11,006	539	4,835
Bowman	4,058	169	4,278	5,640	1,558
Burke	5,116	85	4,043	17	1,073
Burlingame	9,374	105	10,916	3,344	1,534
Cass	16,786	147	13,277	2,931	9,711
Cavalier	13,802	83	10,079	748	4,490
Dickey	10,699	217	10,786	1,266	7,608
Divide	6,086	62	5,503	121	1,373
Dunn	8,193	11	10,141	13,118	3,614
Eddy	5,534	88	4,784	2,078	1,944
Emmons	9,336	13	12,729	3,324	5,970
Foster	5,942	88	4,879	930	2,646
Grand Forks	14,908	382	11,838	2,772	5,341
Griggs	9,926	129	6,001	2,938	3,425
Hettinger	6,547	62	5,569	5,352	4,684
Kidder	11,131	60	14,420	7,616	1,786
LaMoure	12,717	237	11,090	541	5,872
Logan	7,774	18	15,820	2,285	3,235
McHenry	9,363	200	7,545	2,668	3,101
McIntosh	6,877	16	14,490	3,112	4,262
McKenzie	5,344	12	6,958	4,118	1,630
McLean	12,257	111	15,881	604	4,297
Mercer	4,193	8	5,112	5,102	1,615
Morton	16,372	57	19,955	5,077	7,805
Mountrail	7,465	98	8,822	489	1,704
Nelson	13,224	244	11,423	1,946	4,370
Oliver	4,685	394	7,324	752	2,716
Pembina	11,430	30	11,704	9,594	6,042
Pierce	10,758	53	6,846	87	4,320
Ramsey	12,108	117	8,833	689	5,171
Ransom	9,371	111	10,582	731	6,702
Renville	3,945	70	2,594	2	712
Richland	14,953	231	20,630	1,635	13,898
Rolette	8,160	279	6,957	1,478	2,787
Sargent	9,542	174	13,006	1,483	9,692
Sheridan	7,423	86	6,773	265	2,614
Stark	6,867	21	7,491	794	3,254
Steele	8,393	92	6,379	691	3,684
Stutsman	14,866	171	13,868	2,938	4,516
Towner	11,181	398	6,176	539	5,593
Traill	8,348	377	7,576	1,688	4,170
Walsh	15,366	79	13,329	1,222	6,734
Ward	9,786	216	8,422	533	2,000
Wells	15,841	138	9,961	1,341	4,481
Williams	9,665	282	8,699	163	2,573
Totals	488,628	6,848	480,337	139,479	209,059

LIVE STOCK—1911—Continued

County	Value of Animals Fattened and Killed for Home Use	Received for Cattle, and Hogs and Sheep Sold for Market	Received for Horses Sold to Market	Value of All Kinds Stock Brought Into State
Adams	21,629.00	40,384.00	39,856.72	139,416.57
Barnes	91,700.00	141,850.89	91,903.55	100,609.50
Benson	55,886.00	64,181.90	45,286.50	55,765.00
Billings	74,555.00	193,943.20	109,184.00	230,118.50
Bottineau	94,218.00	68,869.00	81,614.00	129,980.65
Rowman	11,226.00	34,605.00	28,863.00	95,030.00
Burke	25,563.00	17,347.50	16,845.00	36,499.45
Burleigh	37,428.00	142,034.00	48,064.00	104,494.00
Cass	103,235.00	199,398.00	68,391.00	86,697.00
Cavaller	93,551.00	72,319.00	60,078.00	78,248.00
Dickey	44,884.00	230,460.00	65,028.00	103,940.00
Divide	22,980.00	17,490.00	30,286.00	89,718.50
Dunn	19,982.00	127,218.00	48,575.00	65,719.00
Eddy	25,225.00	55,750.00	22,809.00	42,716.00
Emmons	16,554.00	206,778.00	68,227.00	48,521.00
Foster	32,761.00	57,920.50	24,715.00	49,443.50
Grand Forks	111,210.00	180,764.40	111,897.00	92,938.50
Griggs	43,646.81	54,012.66	80,634.00	62,901.50
Hettinger	47,878.00	33,809.00	68,705.00	188,488.00
Kidder	22,960.00	118,464.00	40,525.00	86,533.00
LaMoure	66,773.00	128,553.00	115,636.00	167,027.00
Logan	46,738.00	173,858.55	37,451.00	169,678.50
McHenry	51,139.00	56,288.00	79,129.00	53,982.00
McIntosh	65,830.00	88,190.30	25,138.00	28,248.20
McKenzie	31,861.00	69,171.00	59,646.00	107,626.00
McLean	58,046.00	59,438.00	56,322.00	111,955.00
Mercer	23,352.00	63,389.00	55,030.00	80,112.00
Morton	74,458.20	187,751.75	85,361.55	164,854.61
Mountrail	24,532.00	30,139.00	26,405.00	81,074.00
Nelson	80,043.00	103,226.00	56,161.00	50,733.00
Oliver	25,871.00	57,964.00	29,802.00	57,344.00
Pembina	92,945.20	119,829.00	43,207.00	80,734.00
Pierce	69,098.00	55,542.00	53,183.00	72,503.00
Ramsey	66,224.00	86,229.00	46,692.00	48,762.00
Ransom	53,642.00	125,539.36	33,925.00	86,945.25
Renville	10,212.00	3,096.50	10,760.00	16,199.60
Richland	110,113.25	223,712.00	45,329.00	82,888.25
Rolette	52,968.00	61,880.00	47,932.00	59,049.00
Sargent	40,237.00	191,283.00	62,382.00	101,608.00
Sheridan	39,895.00	34,353.75	32,093.50	69,026.40
Stark	29,700.00	57,190.00	47,280.00	82,717.00
Steele	54,166.00	69,510.00	35,352.00	50,427.50
Stutsman	69,094.50	136,791.00	83,909.00	110,962.00
Towner	70,969.00	83,509.00	78,802.00	99,500.00
Trall	60,617.00	77,035.00	26,027.00	49,583.00
Walsh	111,292.00	93,667.00	63,087.00	86,004.00
Ward	37,003.00	45,122.25	34,690.00	71,621.35
Wells	73,907.00	109,587.00	74,229.00	65,324.00
Williams	41,355.70	35,143.00	41,073.00	163,063.77
Totals	\$ 2,637,633.66	\$ 4,685,492.51	\$ 2,602,420.82	\$ 4,357,829.63

COAL MINES—1910

County	No. Mines Operated	No. Tons Mined	Average Cost Per Ton	No. Men Employed	Total Wages Paid Miners	Avg. Hours Daily Labor
Adams	10	7,740	.82	26	6,000.00	9
Barnes	.....	.....	.....	.....	.....	.....
Benson	.....	.....	.....	.....	.....	.....
Billings	.....	.....	.....	.....	.....	.....
Bottineau	.....	.....	.....	.....	.....	.....
Bowman	2	10,885	2.16	28	5,365.00	10
Burke	4	9,875	.57 1/2	10	2,200.00	11 51/70
Burleigh	4	179,895	1.00	309	149,250.00	10
Cass	.....	.....	.....	.....	.....	.....
Cavalier	.....	.....	.....	.....	.....	.....
Dickey	.....	.....	.....	.....	.....	.....
Divide	4	26,000	2.80	49	3,300.00	.....
Dunn	.....	.....	.....	.....	.....	.....
Eddy	.....	.....	.....	.....	.....	.....
Emmons	.....	.....	.....	.....	.....	.....
Foster	.....	.....	.....	.....	.....	.....
Grand Forks	.....	.....	.....	.....	.....	.....
Griggs	.....	.....	.....	.....	.....	.....
Hettinger	7	4,870	1.26	10	2,520.00	10
Kidder	.....	.....	.....	.....	.....	.....
LaMoure	.....	.....	.....	.....	.....	.....
Logan	.....	.....	.....	.....	.....	.....
McHenry	1	500	1.00	4	50.00	8
McIntosh	1	200	.50	2	60.00	8
McKenzie	1	200	.50	2	60.00	8
McLean	3	7,500	1.30	7	1,915.00	11
Mercer	.....	.....	.....	.....	.....	.....
Morton	9	20,699	1.00	32	9,040.00	10
Mountrail	5	2,850	1.25	12	2,200.00	8
Nelson	.....	.....	.....	.....	.....	.....
Oliver	.....	.....	.....	.....	.....	.....
Pembina	.....	.....	.....	.....	.....	.....
Pierce	.....	.....	.....	.....	.....	.....
Ramsey	.....	.....	.....	.....	.....	.....
Ransom	.....	.....	.....	.....	.....	.....
Renville	2	5,800	1.75	8	4,717.00	8
Richland	.....	.....	.....	.....	.....	.....
Rolette	.....	.....	.....	.....	.....	.....
Sargent	.....	.....	.....	.....	.....	.....
Sheridan	.....	.....	.....	.....	.....	.....
Stark	2	20,000	1.40	30	12,500.00	10
Steele	.....	.....	.....	.....	.....	.....
Stutsman	.....	.....	.....	.....	.....	.....
Towner	.....	.....	.....	.....	.....	.....
Trall	.....	.....	.....	.....	.....	.....
Walsh	.....	.....	.....	.....	.....	.....
Ward	13	52,181	9.45	71	419,130.00	53
Wells	.....	.....	.....	.....	.....	.....
Williams	6	3,425	.97	13	2,460.50	9
Totals	73	351,730	27.23	611	620,707.50	175 51/70

VITAL STATISTICS—1910

Count	No. Males Living on Farms	No. Females Living on Farms	No. of Births	No. of Deaths
Adams	2,141	1,620	163	28
Barnes	4,937	3,871	252	47
Benson	3,431	2,732	176	31
Billings	3,712	2,879	200	34
Bottineau	5,570	4,511	176	36
Bowman	1,602	1,209	86	42
Burke	2,059	1,584	133	25
Burleigh	2,883	2,236	160	30
Cass	5,708	4,306	143	45
Cavaller	4,973	4,076	242	49
Dickey	2,843	2,302	132	36
Divide	2,385	1,760	153	27
Dunn	2,076	1,597	159	15
Eddy	1,423	1,035	65	16
Emmons	3,268	2,873	281	47
Foster	1,593	1,120	57	14
Grand Forks	5,468	4,391	175	66
Griggs	2,070	1,484	95	22
Hettinger	2,654	2,176	134	51
Kidder	2,357	1,937	130	30
LaMoure	3,691	2,992	218	59
Logan	2,626	2,361	228	47
McHenry	3,063	2,587	332	52
McIntosh	2,339	2,270	204	48
McKenzie	1,721	1,069	90	17
McLean	4,555	3,911	291	72
Mercer	1,245	1,059	102	31
Morton	6,037	5,364	423	71
Mountrail	3,257	2,430	255	40
Nelson	3,456	2,743	131	40
Oliver	1,176	962	109	18
Pembina	4,330	3,451	239	53
Pierce	3,341	2,658	227	52
Ramsey	3,549	2,730	159	24
Ransom	2,957	2,432	141	40
Renville	1,691	1,402	108	10
Richland	4,856	3,856	199	94
Rolette	3,012	2,172	151	34
Sargent	2,913	2,258	115	31
Sheridan	2,867	2,428	246	62
Stark	2,880	2,237	99	23
Steele	2,705	2,051	105	23
Stutsman	5,001	4,079	325	66
Towner	3,074	2,318	166	24
Trall	3,159	2,399	80	15
Walsh	5,969	5,029	255	46
Ward	4,092	3,302	228	51
Wells	3,977	3,246	212	56
Williams	4,039	3,085	257	47
Totals	160,727	128,580	8,807	1,937

FARM LABOR STATISTICS—1910

County	No. Male Employees	Average Wages Per Month	No. Female Employees	Average Wages Per Month	Total Wages Paid During Year
Adams	262	.30	32	.15	47,430.75
Barnes	1,426		280		393,545.00
Benson	810	33.12	171	23.11	243,664.50
Billings	782		90		184,595.00
Bottineau	1,274	35.00	316	18.00	488,772.00
Bowman	501		100		60,267.00
Burke	448	34.15	138	20.18	76,064.00
Burleigh	665	30.00	112	8.00	59,340.00
Cass	1,500	32.54	354	21.03	784,269.00
Cavaller	970	36.50	148	19.50	212,878.00
Dickey	547	34.44	64	18.22	134,451.00
Divide	829	36.00	43	20.00	85,332.50
Dunn	408	30.00	61	20.00	46,337.00
Eddy	398	20.95	104	11.31	88,448.00
Emmons	176	20.00	42	18.00	5,030.00
Foster	448	33.83	62	19.76	127,874.10
Grand Forks	1,505	32.70	471	17.14	444,702.00
Griggs	589	36.56	146	21.36	248,866.00
Hettinger	519	35.00	43	20.00	55,323.00
Kidder	184	24.00	16	23.00	24,397.00
LaMoure	839	45.00	177	21.00	254,083.00
Logan	268	23.30	48	15.00	40,710.00
McHenry	956	30.00	231	16.50	114,920.00
McIntosh	156	45.00	86	29.00	10,027.00
McKenzie	156	39.70	16	27.60	41,491.00
McLean	885	35.00	132	20.00	88,025.00
Mercer	143	18.90	13	15.00	16,036.00
Morton	1,434	29.00	43	18.00	70,494.00
Mountrail	408	35.00	56	15.00	74,793.00
Nelson	953	33.42	306	16.10	282,585.00
Oliver					
Pembina	1,082	33.00	173	16.60	252,022.00
Pierce	664	26.00	194	16.00	82,602.00
Ramsey	1,019	34.00	186	17.00	260,588.00
Ransom	631	35.00	150	19.00	234,562.25
Renville	210		28		54,681.00
Richland	1,035	30.00	246	15.00	433,419.00
Rolette	521	20.30	69	20.26	112,591.00
Sargent	773	30.00	186	20.00	26,810.00
Sheridan	381		33		
Stark	400	28.00	250	15.00	84,000.00
Steele	862	20.07	312	17.10	332,923.50
Stutsman	845	30.00	129	15.00	204,183.00
Towner	890		217		228,967.00
Trall	1,024	34.55	294	18.30	356,933.00
Walsh	919	30.03	286	13.95	296,918.00
Ward	688	26.49	102	6.45	97,309.00
Wells	681	21.03	99	15.67	196,036.00
Williams	743	32.70	117	19.17	109,567.50
Totals	33,805	\$ 1,298.28	6,972	\$ 749.31	\$ 8,168,842.10

CREAMERIES, CHEESE FACTORIES, AND STATIONS—1910

County	No. of Creameries	Lbs. Butter Manufactured	No. Cheese Factories	Lbs. Cheese Manufactured	No. Cream and Milk Stations
Adams	1	650			
Barnes	1	56,834			
Benson	1				
Billings					
Bottineau					
Bowman	1				
Burke					
Burleigh	3	167,943			5
Cass					
Cavaller	3	300,000			3
Dickey	2	140,000			11
Divide					
Dunn					
Eddy	1	6,000			
Emmons	1				3
Foster					
Grand Forks	2	90,580			
Griggs					
Hettinger	1				
Kidder	2	286,780			
LaMoure	2	177,836			
Logan	2				6
McHenry	1	10,200			
McIntosh	1	170,400			15
McKenzie					
McLean	1	100,000			
Mercer					
Morton	9				
Mountrail	2	13,615			2
Nelson					
Oliver	5				
Pembina	8				
Pierce	1				
Ramsey					
Ransom					
Renville	1				
Richland	5				
Rolette	1	111,538			
Sargent	3				
Sheridan		48,000			
Stark	3				6
Steele					
Stutsman					
Towner					
Trail	1	48,637			
Walsh	4	10,000			
Ward	1	2,787			
Wells					
Williams	3				3
Totals	73	1,741,800			56

MANUFACTURING AND OTHER INDUSTRIES—1910

County	Total Number	Total Capital Invested	Average No. Hours Daily Labor	Total Value Goods Mfd.	Total Value Material Used	Weeks in Operation
Adams	.....	.....	.....	.....	.....	.....
Barnes	.....	.....	.....	.....	.....	.....
Benson	.....	.....	.....	.....	.....	.....
Billings	1	10,000.00	10	.....	.....	52
Bottineau	.....	.....	.....	.....	.....	.....
Bowman	8	36,700.00	8 ½	25,000.00	5,000.00	52
Burke	.....	.....	.....	.....	.....	.....
Burleigh	11	72,300.00	10	208,523.00	88,400.00	52
Cass	.....	.....	.....	.....	.....	.....
Cavalier	.....	.....	.....	.....	.....	.....
Dickey	.....	.....	.....	.....	.....	.....
Divide	.....	.....	.....	.....	.....	.....
Dunn	.....	.....	.....	.....	.....	.....
Eddy	.....	.....	.....	.....	.....	.....
Emmons	.....	.....	.....	.....	.....	.....
Foster	5	17,300.00	9 2/5	24,000.00	13,825.00	45
Grand Forks	.....	.....	.....	.....	.....	.....
Griggs	1	6,000.00	.....	.....	.....	.....
Hettinger	1	175.00	.....	.....	.....	.....
Kidder	1	12,500.00	10	150.00	500.00	52
LaMoure	.....	.....	.....	.....	.....	.....
Logan	.....	.....	.....	.....	.....	.....
McHenry	.....	.....	.....	.....	.....	.....
McIntosh	.....	.....	.....	.....	.....	.....
McKenzie	.....	.....	.....	.....	.....	.....
McLean	.....	.....	.....	.....	.....	.....
Mercer	.....	.....	.....	.....	.....	.....
Morton	.....	.....	.....	.....	.....	.....
Mountrail	.....	.....	.....	.....	.....	.....
Nelson	.....	.....	.....	.....	.....	.....
Oliver	.....	.....	.....	.....	.....	.....
Pembina	.....	.....	.....	.....	.....	.....
Pierce	1	25,000.00	24	26,000.00	.....	52
Ramsey	.....	.....	.....	.....	.....	.....
Ransom	.....	.....	.....	.....	.....	.....
Renville	.....	.....	.....	.....	.....	.....
Richland	14	19,760.00	10	75,050.00	36,825.00	52
Rolette	1	150.00	10	98.65	68.40	2 1/3
Sargent	.....	.....	.....	.....	.....	.....
Sheridan	.....	.....	.....	.....	.....	.....
Stark	11	150,000.00	10	.....	.....	.....
Steele	.....	.....	.....	.....	.....	.....
Stutsman	.....	.....	.....	.....	.....	.....
Towner	.....	.....	.....	.....	.....	.....
Trail	.....	.....	.....	.....	.....	.....
Walsh	13	6,300.00	8	347,531.00	824,665.00	50
Ward	.....	.....	.....	.....	.....	.....
Wells	.....	.....	.....	.....	.....	.....
Williams	1	4,250.00	8	6,435.40	13,115.40	52
Totals	69	860,435.00	1179/10	712,786.05	482,398.80	461 1/3

MANUFACTURING AND OTHER INDUSTRIES—1910—Continued

County	Total Wages Paid	No. Male Employees	Average Daily Wages	No. Female Employees	Average Daily Wages
Adams					
Barnes					
Benson					
Billings	6,240.00	6	13.33		
Bottineau					
Bowman	1,500.00	5	2.50	3	2.00
Burke					
Burleigh	66,650.00	85	2.50	21	1.50
Cass					
Cavaller					
Dickey					
Divide					
Dunn					
Eddy					
Emmons					
Foster	3,175.00	8	2.70		
Grand Forks					
Griggs					
Hettinger					
Kidder	1,000.00	3	3.00		
LaMoure					
Logan					
McHenry					
McIntosh					
McKenzie					
McLean					
Mercer					
Morton					
Mountrail					
Nelson					
Oliver					
Pembina					
Pierce		10		1	
Ramsey					
Ransom					
Renville					
Richland	23,546.00	38	2.50		
Rolette	28.25	1	2.00		
Sargent					
Sheridan					
Stark					
Steele					
Stutsman					
Towner					
Trall					
Walsh	10,430.00	12	3.05	3	1.75
Ward					
Wells					
Williams	4,680.00	5	3.00		
Totals	\$ 117,249.25	173	\$ 34.58	28	\$ 5.25

LABOR ORGANIZATIONS—1910

County	Total Number	Total Membership in the State
Adams
Barnes
Benson
Billings
Bottineau
Bowman
Burke
Burleigh	1	20
Cass
Cavalier
Dickey
Divide
Dunn
Eddy
Emmons
Foster
Grand Forks
Griggs
Hettinger
Kidder
LaMoure
Logan
McHenry
McIntosh
McKenzie
McLean
Mercer
Morton
Mountrail
Nelson
Oliver
Pembina
Pierce
Ramsey
Ransom
Renville
Richland
Rolette
Sargent
Sheridan
Stark
Steele
Stutsman
Towner
Traill
Walsh
Ward
Wells
Williams
Totals	1	20

ELEVATORS AND WAREHOUSES—1911

County	Total No. Farmers' Elevators	Total Capacity Bushels	Total No. Line Elevators	Total Capacity Bushels	Total No. Lumber Yards
Adams	2	40,000	14	365,000	16
Barnes	19	650,000	53	1,214,000	24
Benson	11	445,000	51	1,416,000	15
Billings	1	40,000	13	550,000	10
Bottineau	14	402,000	85	2,472,000	26
Bowman	3	65,000	6	30,000	15
Burke					
Burleigh	1	30,000	10	340,000	10
Cass					
Cavaller	10	382,000	59	1,916,000	20
Dickey	2	50,000	33	700,000	12
Divide	4	125,000	9	156,000	
Dunn					
Eddy	4	154,000	11	308,000	5
Emmons	1	17,000	22	440,000	12
Foster	3	83,000	18	490,000	8
Grand Forks	9	235,000	66	2,326,000	17
Griggs	4		24		10
Hettinger			10	250,000	20
Kidder	1	250,000	4	132,000	5
LaMoure	11	380,000	44	1,020,000	23
Logan	3	95,000	15	368,000	6
McHenry	20	483,000	52	1,142,000	26
McIntosh	1	22,000	18	350,000	11
McKenzie					5
McLean	5	106,000	41	846,000	20
Mercer			4	250,000	6
Morton	4	140,000	34	979,000	
Mountrail	4	125,000	18	359,000	15
Nelson	8	306,000	29	949,000	18
Oliver			2	70,000	2
Pembina	8	128,000	59	1,879,000	16
Pierce	6	220,000	16	608,000	16
Ramsey	3	108,000	52	1,732,000	22
Ransom	1	40,000	2	40,000	1
Renville	4	120,000	16	545,000	11
Richland	8		44		20
Rolette	6	170,000	34	823,000	10
Sargent	6	130,000	35	780,000	16
Sheridan					
Stark	9	160,000	13		15
Steele	7	315,000	17	595,000	9
Stutsman					
Towner	5	188,000	49	1,574,000	
Trall	9	361,000	47	1,824,500	14
Walsh	8		82		19
Ward	3	90,000	15	209,000	5
Wells	7	230,000	38	1,022,000	14
Williams	2	52,000	19	454,000	16
Totals	237	6,712,000	1,283	31,523,500	563

FLOURING MILLS—1911

County	Total Number	Daily Capacity Barrels	Total No. Bbls. Milled 1910
Adams	1	100	9,500
Barnes	1	1,800	397,516 $\frac{1}{2}$
Benson	1	75	1,000
Billings	—	—	—
Bottineau	4	—	—
Bowman	1	100	—
Burke	—	—	—
Burleigh	1	200	—
Cass	—	—	—
Cavalier	3	—	35,296
Dickey	2	250	—
Divide	—	—	—
Dunn	—	—	—
Eddy	1	140	15,500
Emmons	1	75	—
Foster	—	—	—
Grand Forks	2	900	194,686
Griggs	1	—	—
Hettinger	—	—	—
Kidder	—	—	—
LaMoure	2	62 $\frac{1}{2}$	15,000
Logan	—	—	—
McHenry	1	75	7,000
McIntosh	2	80	48,500
McKensie	1	50	5,000
McLean	2	250	—
Mercer	1	75	—
Morton	—	—	—
Mountrail	—	—	—
Nelson	—	—	—
Oliver	—	—	—
Pembina	2	400	—
Pierce	1	125	—
Ramsey	1	100	10,530
Ransom	—	—	—
Renville	—	—	—
Richland	5	—	—
Rolette	1	80	6,000
Sargent	3	83 $\frac{1}{3}$	—
Sheridan	—	—	—
Stark	3	400	187,711
Steele	2	200	5,000
Stutsman	—	—	—
Towner	—	—	—
Trall	1	75	—
Walsh	3	1,000	326,375
Ward	—	—	—
Wells	1	150	10,500
Williams	1	150	30,000
Totals	52	7,595 $\frac{5}{6}$	1,303,114 $\frac{1}{2}$

ELEVATORS AND WAREHOUSES—1911

County	Total No. Farmers' Elevators	Total Capacity Bushels	Total No. Line Elevators	Total Capacity Bushels	Total No. Number Yards
Adams	2	40,000	14	365,000	16
Barnes	19	650,000	53	1,214,000	24
Benson	11	445,000	51	1,416,000	15
Billings	1	40,000	13	550,000	10
Bottineau	14	402,000	85	2,472,000	26
Bowman	3	65,000	6	30,000	15
Burke	1	30,000	10	340,000	10
Burleigh	1	30,000	10	340,000	10
Cass	10	382,000	59	1,916,000	20
Cavaller	2	50,000	33	700,000	12
Dickey	4	125,000	9	156,000	12
Divide	4	125,000	9	156,000	12
Dunn	4	154,000	11	308,000	5
Eddy	1	17,000	22	440,000	12
Emmons	3	83,000	18	490,000	8
Foster	9	235,000	66	2,326,000	17
Grand Forks	4	235,000	24	235,000	10
Griggs	10	250,000	10	250,000	20
Hettinger	1	250,000	4	132,000	5
Kidder	11	380,000	44	1,020,000	23
LaMoure	3	95,000	15	368,000	6
Logan	20	483,000	52	1,142,000	26
McHenry	1	22,000	18	350,000	11
McIntosh	5	106,000	41	846,000	20
McKenzie	4	140,000	34	979,000	6
McLean	4	125,000	18	359,000	15
Mercer	8	306,000	29	949,000	18
Morton	2	70,000	2	70,000	2
Mountrail	8	128,000	59	1,879,000	16
Nelson	6	220,000	16	608,000	16
Oliver	3	108,000	52	1,732,000	22
Pembina	1	40,000	2	40,000	1
Pierce	4	120,000	16	545,000	11
Ramsey	8	170,000	34	823,000	10
Ransom	6	130,000	35	780,000	16
Renville	9	100,000	13	595,000	9
Richland	7	315,000	17	595,000	9
Rolette	5	188,000	49	1,574,000	14
Sargent	9	361,000	47	1,824,500	14
Sheridan	8	90,000	82	209,000	5
Stark	3	230,000	38	1,022,000	14
Steele	7	52,000	19	454,000	16
Stutsman	2	52,000	19	454,000	16
Towner	5	188,000	49	1,574,000	14
Trail	9	361,000	47	1,824,500	14
Walsh	8	90,000	82	209,000	5
Ward	3	230,000	38	1,022,000	14
Wells	7	52,000	19	454,000	16
Williams	2	52,000	19	454,000	16
Totals	237	6,712,000	1,283	31,523,500	563

FLOURING MILLS—1911

County	Total Number	Daily Capacity Barrels	Total No. Bbls. Milled 1910
Adams	1	100	9,500
Barnes	1	1,800	397,516 $\frac{1}{2}$
Benson	1	75	1,000
Billings	4	.....	.....
Bottineau	1	100	.....
Bowman	1	200	.....
Burke	1	.....	.....
Burleigh	3	.....	35,296
Cass	2	250	.....
Cavaller	1	140	15,500
Dickey	1	75	.....
Divide	2	900	194,686
Dunn	1	.....	.....
Eddy	1	.....	.....
Emmons	2	.....	.....
Foster	1	.....	.....
Grand Forks	2	.....	.....
Griggs	1	.....	.....
Hettinger	2	62 $\frac{1}{2}$	15,000
Kidder	1	75	7,000
LaMoure	2	80	46,500
Logan	1	50	5,000
McHenry	2	250	.....
McIntosh	1	75	.....
McKenzie	1	.....	.....
McLean	3	400	187,711
Mercer	2	125	5,000
Morton	1	100	10,530
Mountrail	1	.....	.....
Nelson	2	.....	.....
Oliver	1	.....	.....
Pembina	1	.....	.....
Pierce	1	.....	.....
Ramsey	5	80	6,000
Ransom	1	83 $\frac{1}{3}$	.....
Renville	3	.....	.....
Richland	3	.....	.....
Rolette	3	.....	.....
Sargent	3	.....	.....
Sheridan	3	.....	.....
Stark	2	.....	.....
Steele	1	.....	.....
Stutsman	1	.....	.....
Towner	1	.....	.....
Traill	3	.....	.....
Walsh	1	.....	.....
Ward	1	.....	.....
Wells	1	.....	.....
Williams	1	.....	.....
Totals	52	7,595 $\frac{5}{6}$	1,303,114 $\frac{1}{2}$

STATE SUMMARY OF ELEVATOR REPORTS

JULY, 1910 TO JUNE, 1911

Kinds of Grain	Bought (Bushels)	Shipped (Bushels)	Retailed (Bushels)	On Hand (Bushels)
Spring Wheat	24,247,871	22,480,976	1,061,628	438,743
Durum Wheat	4,668,384	4,186,805	136,363	93,656
Winter Wheat	113,227	109,105	525	1,378
Flax	2,615,289	2,593,423	97,942	28,209
Oats	2,206,708	630,987	1,535,523	123,196
Barley	1,755,263	1,762,225	76,159	32,839
Hull-less Barley	28,113	27,207	828	30
Spring Rye	33,332	29,676	1,788	1,290
Winter Rye	54,558	59,624	1,769	549
Speltz	4,386		5,372	631
Corn	1,181,734	30,904	1,176,968	16,649
Potatoes	2,715		2,693	
Millet Seed	1,923	43	1,360	493
Clover Seed	21		10	11
Timothy Seed	1,444	1,353	79	15
Alfalfa Seed	4		2	2
Brome Grass	593		593	
Hay (Tons)	164		164	

ELEVATORS AND WAREHOUSES

1911

WHEAT (Spring)

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	90,205	71,121	17,172	73
Barnes	1,145,896	1,144,567	6,551	20,811
Benson	1,366,666	409,994	8,489	11,664
Billings	253,723	248,132	4,715	1,552
Bottineau	1,273,293	1,262,872	8,196	20,273
Bowman	207,198	195,012	8,258	1,547
Burke	435,604	415,877	9,119	8,820
Burleigh	831	942	170	
Cass	1,461,721	1,333,687	139,846	32,211
Cavalier	930,911	962,634	8,678	27,006
Dickey	267,701	76,022	189,757	2,758
Divide	334,140	326,929	1,701	6,367
Dunn				
Eddy	163,782	589,570	8,321	791
Emmons	102,709	99,387	50,911	261
Foster	262,494	250,815	4,579	4,819
Grand Forks	776,520	752,947	8,177	18,099
Griggs	407,410	403,732	8,147	2,904
Hettinger	116,154	211,385	1,132	562
Kidder	16,042	20,144	951	637
LaMoure	420,614	407,807	12,933	8,727
Logan	184,700	114,375	1,658	582
McHenry	659,769	638,184	17,410	5,576
McIntosh	190,435	160,675	520	300
McKenzie				
McLean	198,082	186,355	13,452	3,612
Mercer				
Morton	570,171	467,914	91,702	13,845
Mountrail	427,748	425,198	3,473	2,882
Nelson	380,427	341,124	8,824	10,181
Pembina	1,295,589	1,274,444	4,978	40,085
Pierce	219,684	248,836	1,097	2,274
Ramsey	719,497	707,667	9,350	10,660
Ransom	217,228	208,545	15,559	8,528
Renville	383,118	369,772	5,103	7,932
Richland	1,928,092	1,705,344	232,000	43,325
Rolette	127,747	111,967	2,894	1,502
Sargent	534,808	463,186	3,986	8,038
Sheridan	84,801	28,104	9,000	70
Stark	870,839	868,202	4,447	18,028
Steele	879,936	374,632	875	1,687
Stutsman	589,038	565,605	18,199	17,586
Towner	349,893	329,553	8,466	14,464
Trall	1,356,616	1,276,034	87,941	21,620
Walsh	776,140	762,387	2,402	18,672
Ward	842,504	768,374	13,080	27,570
Wells	417,324	347,458	57,159	6,876
Williams	610,571	359,595	15,804	6,518
Total	24,247,871	22,480,976	1,061,628	436,748

ELEVATORS AND WAREHOUSES—1911—Continued

DURUM

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	41,745	85,815	3,122	
Barnes	656,186	644,105	280	6,784
Benson	20,805	18,609	271	1,233
Billings	12,211	10,671	588	
Bottineau				
Bowman	50,610	47,088	988	1,415
Burke	411	424		
Burleigh	719	478	19	
Cass	184,543	178,626	400	1,977
Cavalier	1,928	1,577		
Dickey	399,185	298,124	86,417	2,701
Divide	805			
Dunn				
Eddy	73,625	71,247	4	3,200
Emmons	4,677	4,757	74	2,274
Foster	120,024	105,878	644	
Grand Forks	18,608	10,398	255	1,580
Griggs	110,030	92,815	13,697	2,727
Hettinger	4,316	7,462	112	592
Kidder	3,704	6,657	645	348
LaMoure	584,389	565,190	18,486	10,905
Logan	25,478	20,485	585	
McHenry	7,545	8,624	178	71
McIntosh	3,527	1,400		127
McKenzie				
McLean	6,699	7,482	387	97
Mercer				
Morton	4,203	3,474	621	149
Mountrail	8,505	8,371		
Nelson	21,768	13,610	175	1,085
Oliver				
Pembina	3,624	3,076	65	
Pierce	4,316	1,782	279	
Ramsey	3,987	2,924		1,196
Ransom	625,760	565,612	742	15,970
Renville	99,340	93,340		
Richland	285,843	200,660	13	3,442
Rolette	1,081	2,140		8
Sargent	804,331	792,861	2,644	17,661
Sheridan	753	739		
Stark	19,299	17,761	627	420
Steele	85,810	55,181	387	332
Stutsman	144,644	134,662	2,783	6,158
Towner	11,292	8,782		
Traill	88,930	70,218	86	9,683
Walsh	6,351	5,059	118	250
Ward	19,106	17,681	199	663
Wells	62,622	61,646	422	244
Williams	1,188	29		454
Total	4,668,884	4,186,805	186,363	93,656

ELEVATORS AND WAREHOUSES—1911—Continued

WINTER WHEAT

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	349	329		
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass	50,889	49,818	525	496
Cavalier				
Dickey	1,143	1,143		
Divide				
Dunn				
Eddy				
Emmons	120			
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry	60,776	57,815		882
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill				
Walsh				
Ward				
Wells				
Williams				
Total	118,227	109,105	525	1,878

ELEVATORS AND WAREHOUSES—1911—Continued

FLAX

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	34,858	31,853	1,789	455
Barnes	49,249	46,726	2,276	1,034
Benson	42,554	39,987	2,057	566
Billings	156,845	152,775	3,170	117
Bottineau	100,197	95,190	3,334	1,100
Bowman	95,414	88,120	4,537	154
Burke	34,451	31,880	2,645	234
Burleigh	2,202	2,314	2	.....
Cass	9,290	8,206	343	996
Cavalier	26,252	24,973	774	759
Dickey	28,220	26,873	1,520	522
Divide	39,247	31,980	6,636	778
Dunn	.....	.....	.....	.....
Eddy	19,880	18,429	517	244
Emmons	2,330	2,158	143	30
Foster	40,619	39,030	1,107	61
Grand Forks	12,826	11,292	892	870
Griggs	39,886	38,766	1,661	34
Hettinger	40,119	41,117	2,485	2
Kidder	22,105	27,778	765	11
LaMoure	76,120	69,585	3,126	3,135
Logan	34,563	33,901	624	.....
McHenry	74,135	73,037	798	532
McIntosh	27,415	26,950	460	.....
McKenzie	.....	.....	.....	.....
McLean	148,085	145,058	2,528	291
Mercer	.....	.....	.....	.....
Morton	170,844	192,909	4,026	946
Mountrail	87,862	87,028	1,162	298
Nelson	23,558	20,424	1,911	669
Oliver	.....	.....	.....	.....
Pembina	42,786	40,101	4,197	615
Pierce	23,286	22,821	523	164
Ramsey	68,247	64,963	1,617	1,672
Ransom	32,240	31,888	166	357
Renville	71,323	68,286	2,114	764
Richland	69,970	68,684	716	624
Rolette	15,672	14,499	906	374
Sargent	150,271	151,411	706	778
Sheridan	75,141	134,176	791	162
Stark	167,054	162,774	3,160	182
Steele	35,094	32,954	330	1,044
Stutsman	81,200	74,985	4,837	770
Towner	31,149	29,221	1,397	686
Traill	18,449	15,864	851	1,402
Walsh	17,986	16,396	1,024	193
Ward	136,248	123,474	18,937	1,591
Wells	74,022	72,802	1,364	129
Williams	67,455	60,385	4,159	2,904
Total	2,615,289	2,598,423	97,942	28,209

ELEVATORS AND WAREHOUSES—1911—Continued

OATS

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	84,753	19,051	56,449	8,875
Barnes	108,549	20,278	91,819	3,237
Benson	35,226	6,708	41,381	1,735
Billings	64,191	41,819	21,774	44
Bottineau	107,279	19,035	93,596	3,527
Bowman	73,549	2,101	66,785	11,523
Burke	5,327	-----	4,932	200
Burleigh	-----	-----	69	-----
Cass	56,230	12,675	42,222	2,124
Cavalier	79,995	48,680	29,785	11,228
Dickey	30,590	12,241	18,160	-----
Divide	8,443	-----	3,450	-----
Dunn	-----	-----	-----	-----
Eddy	39,759	27,002	40,905	2,025
Emmons	1,801	-----	8,049	-----
Foster	45,173	3,540	43,810	1,199
Grand Forks	60,280	7,018	59,717	813
Griggs	23,688	7,100	14,412	2,310
Hettinger	15,668	5,089	8,585	2,035
Kidder	-----	798	251	-----
LaMoure	55,077	578	55,168	-----
Logan	-----	-----	-----	-----
McHenry	92,289	22,859	72,403	3,276
McIntosh	8,000	-----	3,000	-----
McKenzie	-----	-----	-----	-----
McLean	71,877	18,698	54,118	4,561
Mercer	-----	-----	-----	-----
Morton	88,141	10,000	20,794	2,991
Mountrail	29,148	14,577	30,508	200
Nelson	7,446	1,499	7,088	-----
Oliver	-----	-----	-----	-----
Pembina	68,981	30,019	20,808	29,889
Pierce	45,202	2,889	43,070	200
Ramsey	63,096	9,391	54,174	1,167
Ransom	48,837	12,745	36,556	12
Renville	49,086	-----	47,586	1,788
Richland	192,857	158,883	26,061	7,616
Rolette	26,885	7,822	17,826	478
Sargent	84,488	4,299	27,240	2,886
Sheridan	8,516	-----	7,016	-----
Stark	48,988	28,747	18,124	1,564
Steele	19,524	1,121	18,768	-----
Stutsman	71,600	5,682	69,226	183
Towner	58,867	23,845	34,814	1,004
Trall	42,189	6,018	38,192	2,390
Walsh	64,975	17,621	44,585	1,071
Ward	12,904	16,192	65,788	8,596
Wells	80,281	244	68,677	2,348
Williams	29,578	20,298	19,102	1,161
Total	2,206,708	680,987	1,585,523	123,196

ELEVATORS AND WAREHOUSES—1911—Continued

BARLEY

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	7,059	6,480	2,514	440
Barnes	101,211	101,708	1,828	1,724
Benson	30,427	27,161	2,660	905
Billings	6,332	6,475	197	
Bottineau	55,228	53,173	3,796	842
Bowman	7,805	7,489	167	
Burke	42		43	
Burleigh				
Cass	76,343	66,670	7,548	809
Cavalier	186,107	187,966	2,184	1,454
Dickey	36,413	33,855	2,402	121
Divide				
Eddy	11,816	10,222	849	774
Emmons	807	820	81	
Foster	42,127	38,473	1,646	486
Grand Forks	50,115	47,454	2,596	964
Griggs	42,205	42,686	869	
Hettinger	4,121	2,581	1,391	90
Kidder	977	1,090	352	
LaMoure	67,962	69,263	3,603	3,643
Logan	2,623	1,091	593	
McHenry	3,561	3,267	2,094	
McIntosh	11,800	3,374	3,226	
McKenzie				
McLean	3,107	1,894	708	
Mercer				
Morton	103		97	
Mountrail	5,690	4,613	1,093	39
Nelson	27,657	27,716	1,554	211
Oliver				
Pembina	302,164	301,430	4,917	5,377
Pierce	14,014	12,436	1,534	386
Ramsey	82,682	79,172	3,289	2,599
Ransom	23,237	23,180	42	60
Renville	6,423	4,371	385	380
Richland	255,875	260,601	300	3,440
Rolette	12,353	12,068	1,715	163
Sargent	97,659	98,162	1,577	949
Sheridan	808		309	
Stark	841		274	55
Steele	24,832	20,191	463	977
Stutsman	45,406	41,091	3,437	1,941
Towner	46,931	41,252	4,578	491
Trails	51,899	48,990	1,282	3,678
Walsh	51,656	51,153	276	555
Ward	3,199	5,969	752	125
Wells	11,768	10,582	2,002	
Williams	1,624	631	596	221
Total	1,755,263	1,762,225	76,159	32,839

ELEVATORS AND WAREHOUSES—1911—Continued

HULL-LESS BARLEY

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	14		14	
Barnes	8,642	8,644		
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs	9,229	9,107	121	
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson	5,180	4,486	698	
Oliver				
Pembina	10,118	10,020		80
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total	28,118	27,207	828	80

ELEVATORS AND WAREHOUSES—1911—Continued

SPRING RYE

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson	760	705	55	
Billings				
Botineau	58		18	85
Bowman				
Burke				
Burleigh	62	81	31	
Cass	5,817	5,666		303
Cavalier				
Dickey				
Divide				
Dunn				
Eddy	2,080	1,619	461	
Emmons				
Foster	585	1,385	97	489
Grand Forks	142	77		
Griggs	984	884		
Hettinger				
Kidder	1,013	2,929	197	48
LaMoure			854	
Logan				
McHenry	456	245	140	78
McIntosh				
McKensie				
McLean	44		44	
Mercer				
Morton	4,040		40	
Mountrail	328	237		
Nelson				
Oliver				
Pembina	4,058	4,090		
Pierce				
Ramsey				
Ransom				
Benvenue				
Richland	3,298	3,237		308
Rolette				
Sargent	851	60	221	70
Sheridan	282	12	60	210
Stark				
Steele				
Stutsman	725	680	46	
Towner				
Trall	6,749	6,768	24	
Walsh	1,455	864		
Ward				
Wells	250	237		
Williams				
Total	33,382	29,676	1,788	1,380

ELEVATORS AND WAREHOUSES—1911—Continued

WINTER RYE

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	1,095	1,095		
Benson				
Billings				
Bottineau	65		65	
Bowman				
Burke				
Burleigh				
Cass	24,822	24,628	618	
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs	43	202		
Hettinger				
Kidder				
LaMoure	711			
Logan				
McHenry	268	268		
McIntosh				
McKenzie				
McLean	1,945	1,957	2	
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina	6,023	5,448	89	549
Pierce				
Ramsey	2,843	2,882		
Ransom				
Renville				
Richland	18,803	12,470	1,000	
Rolette				
Sargent	611	611		
Sheridan				
Stark				
Steele				
Stutsman	822	740	50	
Towner				
Trall	2,005	9,840		
Walsh	507	488		
Ward				
Wells				
Williams				
Total	54,558	59,624	1,769	549

ELEVATORS AND WAREHOUSES—1911—Continued

SPELTZ

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	2,318		1,538	613
Barnes				
Benson				
Billings				
Bottineau				
Bowman			1,766	18
Burke				
Burleigh				
Cass				
Cavaller				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh	630		630	
McKenzie				
McLean	959		959	
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom	200		200	
Renville				
Richland				
Rolette				
Sargent	126		126	
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward	153		153	
Wells				
Williams				
Total	4,886		5,872	681

ELEVATORS AND WAREHOUSES—1911—Continued

CORN

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams	40,781	744	41,826	54
Barnes	42,527		41,166	1,508
Benson	22,801		32,224	
Billings				
Bottineau	72,446	1,151	72,112	772
Bowman	85,988		88,868	1,528
Burke	411	424		
Burleigh				
Cass	25,989	780	25,209	
Cavalier	27,589	2,141	16,008	151
Dickey	18,298		18,298	
Divide	7,210		6,942	270
Dunn				
Eddy	28,985		29,686	
Emmons	4,258		4,250	
Foster	32,131		32,890	
Grand Forks	54,377	1,064	58,158	
Griggs	5,567		5,551	
Hettinger	16,658	712	15,577	241
Kidder				
LaMoure	87,005		51,195	1,100
Logan	4,500		4,500	
McHenry	48,404	1,219	61,644	529
McIntosh	13,720		18,720	
McKenzie				
McLean	80,478		79,108	964
Mercer				
Morton	11,285		10,788	277
Mountrail	4,299		7,479	
Nelson	29,713		29,678	
Oliver				
Pembina				
Pierce	85,964		85,686	828
Ramsey	70,851	5,989	62,419	1,364
Ransom	81,244	1,157	29,958	
Renville	61,032	1,376	58,282	477
Richland	7,848	2,105	5,282	
Rolette	12,208	1,817	11,551	
Sargent	19,568		19,224	90
Sheridan	7,937		7,984	
Stark	2,548		2,548	
Steele				
Stutsman	23,655		28,888	229
Towner	38,709	3,759	29,988	
Traill	83,598	5,766	27,116	
Walsh	84,688	700	84,102	104
Ward	100,609		99,868	6,535
Wells	84,681		83,645	168
Williams	5,859		5,840	
Total	1,181,784	30,904	1,176,968	16,649

ELEVATORS AND WAREHOUSES—1911—Continued

POTATOES

County	Bushels			
County	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey	450		450	
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKensie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom	400		400	
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner	1,850		1,828	
Trail				
Walsh				
Ward				
Wells	15		15	
Williams				
Total	2,715		2,693	

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

ROOTS

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total				

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

MILLET SEED

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	118		118	
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy	1,025		541	457
Emmons				
Foster	49		49	
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure	856		856	
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville	45		40	5
Richland	31			31
Rolette				
Sargent	48	48		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall	45		45	
Walsh	40		40	
Ward				
Wells	171		171	
Williams				
Total	1,928	48	1,860	498

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

HUNGARIAN SEED

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trails				
Walsh				
Ward				
Wells				
Williams				
Total				

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

CLOVER SEED

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	4		4	
Barnes				
Benson				
Billings				
Bottineau	2		2	
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy	10		1	9
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
Lamoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville	5		8	2
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Statsman				
Towner				
Traill				
Walsh				
Ward				
Wells				
Williams				
Total	21		10	11

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

TIMOTHY SEED

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings	8		8	
Bottineau	20		20	
Bowman				
Burke				
Burleigh				
Cass	886	886		
Cavalier	171	172		
Dickey				
Divide				
Dunn				
Eddy	26		18	14
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure	29	21	8	
Logan				
McHenry	5		4	1
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina	20	20		
Pierce				
Ramsey				
Ransom				
Renville	80		80	
Richland	208	207	1	
Rolette				
Sargent	46	47		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total	1,444	1,858	79	15

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

ALFALFA SEED

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau	2		2	
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hottinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville	2			2
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trail				
Walsh				
Ward				
Wells				
Williams				
Total	4		2	2

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

BROME GRASS

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau	143		143	
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville	450		450	
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total	593		593	

ELEVATOR AND WAREHOUSE REPORTS—1911—Continued

HAY

County	Tons			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burlingame				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner	91		91	
Trall				
Ward	84		84	
Wells	89		89	
Walsh				
Williams				
Total	164		164	

STATE SUMMARY OF STATION AGENTS

REPORTS ON GRAIN SHIPMENTS

For two years ending July, 1911, and July, 1912, respectively; first column showing total number of bushels shipped during former period and the second column showing total number of pounds shipped during the latter period.

Kinds of Grain	Bushels Shipped	Pounds Shipped
Wheat	5,408,854	346,042,481
Spring Wheat		89,887,629
Durum Wheat		22,482,293
Winter Wheat		75,782,362
Flax	462,325	88,480,013
Oats	259,918	62,288,453
Barley	1,834,043	
Hull-less Barley		
Spring Rye	86,698	1,762,360
Winter Rye		2,423,547
Spelts	4,349	45,200
Corn	6,868	1,728,052
Potatoes	69,295	32,553,321
Roots		
Millet Seed	742	401,848
Hungarian Seed		
Clover Seed	287	
Timothy Seed	6,622	1,187,107
Alfalfa Seed		75
Brome Grass Seed	117	63,140
Hay (Tons)	30,128	808,607

RAILROAD STATION AGENTS' REPORTS—1911

County	Bushels Shipped				
	Wheat	Oats	Barley	Rye	Flax
Adams					
Barnes	77,290		1,938		1,473
Benson	5,700		2,790		
Billings	750				2,568
Bottineau	17,866	3,143	600		1,138
Bowman					
Burke	64,735	1,920	87,810		65,892
Burleigh	1,000				800
Cass	473,626		56,068	43,706	2,108
Cavalier	71,413	107,529	1,180,570		15,375
Dickey	1,656		9,439		3,000
Divide	1,308,678				27,125
Dunn					
Eddy	1,448				
Emmons	2,333				
Foster	168,438	50,000	40,295	3,000	41,526
Grand Forks	171,379	762	38,684	58	2,738
Griggs	293,961	12,432	40,848	548	22,734
Hettinger	13,200				1,800
Kidder				1,358	1,740
LaMoure	288,778		16,857	2,323	12,559
Logan					
McHenry	27,992		900	636	3,100
McIntosh	2,674		833		
McKenzie					
McLean	26,766				6,054
Mercer					
Morton	165,036				28,590
Mountrail	5,000				
Nelson	18,495	15	6,772		112
Oliver					
Pembina	286,245	543	83,954	5,701	17,259
Pierce	64,233		5,000	3,000	4,800
Ramsey	160,110		24,420	6,427	17,602
Ransom	100,379	9,514	8,503		48
Renville	2,200				
Richland	592,383	44,153	106,780	6,849	60,014
Rolette	6,027		100	645	2,381
Sargent	87,765	8,332	27,798	2,094	11,858
Sheridan					
Stark	262,000	10,060	792		68,030
Steele	19,000		2,916		
Stutsman	77,285	8,500	13,859	9,000	6,200
Towner	124,374		4,450		4,168
Trail	55,300	10	4,500	603	1,108
Walsh	231,549		66,571	750	7,915
Ward	71,500	3,000			10,000
Wells	41,160				12,000
Williams	18,635				4,000
Total	5,408,354	259,913	1,834,043	86,698	462,325

RAILROAD STATION AGENTS REPORTS—1911—Continued

County	Corn	Timothy	Clover	Brome Grass	Millet Seed
Adams					
Barnes					
Benson					
Billings					
Bottineau					
Bowman					
Burke					
Burleigh	1				
Cass	8,528	6,445	167		556
Cavalier					
Dickey					
Divide					
Dunn					
Eddy					
Emmons					
Foster					
Grand Forks	21		12		14
Griggs					
Hettinger					
Kidder		8		10	
LaMoure					
Logan					
McHenry					
McIntosh					
McKenzie					
McLean					
Mercer					
Morton					
Mountrail					
Nelson	2			7	8
Oliver					
Pembina		84			
Pierce					
Ramsey					
Ransom					
Renville					
Richland	3,311	56	87		8
Rolette					
Sargent					157
Sheridan				100	
Stark					
Steele					
Stutsman					
Towner					
Trails	10	29	71		9
Walsh					
Ward					
Wells					
Williams					
Total	6,868	6,622	287	117	742

RAILROAD STATION AGENTS REPORTS—1911—Continued

County	Hungarian	Alfalfa	Spelts	Hay (Tons)
Adams				
Barnes				
Benson				
Billings				
Bottineau				20
Bowman				
Burke				
Burleigh				103
Cass			134	25,736
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster			500	135
Grand Forks				
Griggs				
Hettinger				
Kidder				89
LaMoure				
Logan				24
McHenry			1,276	228
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				120
Nelson				
Oliver				
Pembina				1,848
Pierce				
Ramsey				
Ransom			2,439	12
Renville				
Richland				535
Rolette				
Sargent				259
Sheridan				
Stark				2½
Steele				
Stutsman				936
Towner				
Trall				
Walsh				
Ward				35
Wells				32
Williams				24
Total			4,849	30,128

RAILROAD STATION AGENTS REPORTS—1911—Continued

County	Potatoes
Adams	
Barnes	
Benson	
Billings	
Bottineau	
Bowman	
Burke	
Burleigh	
Cass	83,160
Cavalier	1,666
Dickey	
Divide	
Dunn	
Eddy	
Emmons	
Foster	
Grand Forks	6,685
Griggs	
Hettinger	
Kidder	
LaMoure	
Logan	
McHenry	
McIntosh	
McKenzie	
McLean	
Mercer	
Morton	
Mountrail	
Nelson	2,818
Oliver	
Pembina	2,650
Pierce	
Ramsey	21
Ransom	
Renville	
Richland	2
Rolette	
Sargent	
Sheridan	
Stark	
Steele	8,600
Stutsman	
Towner	
Traill	7,781
Walsh	81,467
Ward	
Wells	
Williams	
Total	69,295

RAILROAD STATION AGENTS' REPORT—1912.

POUNDS SHIPPED

County	Spring Wheat	Durum Wheat	Winter Wheat	Flax
Adams	8,532,100	2,993,018	.....	761,326
Barnes	8,409,085	.....	186,680	2,648,268
Benson .....	.....	.....	.....	.....
Billings .....	.....	.....	.....	.....
Bottineau	3,817,840	542,120	160,000	364,200
Rowman .....	.....	.....	.....	.....
Burke	6,916,060	646,785	.....	1,192,610
Burleigh	1,081,869	51,000	1,190,000	237,200
Cass	30,236,768	17,173,202	13,113,900	934,853
Cavalier	25,449,120	13,129,944	6,617,013	3,803,190
Dickey	518,000	254,000	.....	.....
Divide	17,300,800	.....	.....	3,459,320
Dunn .....	.....	.....	.....	.....
Eddy	3,369,430	1,210,000	230,000	656,314
Emmons	226,435	650,000	.....	320,044
Foster	16,998,483	6,726,830	.....	4,643,680
Grand Forks	3,327,629	16,419,980	.....	505,743
Griggs	28,887,660	2,264,400	.....	2,080,360
Hettinger .....	.....	.....	.....	.....
Kidder	1,012,970	.....	.....	250,380
LaMoure	994,160	608,654	.....	1,563,370
Logan .....	.....	.....	.....	.....
McHenry	2,255,000	341,500	.....	338,400
McIntosh	482,550	.....	.....	2,500
McKenzie .....	.....	.....	.....	.....
McLean .....	.....	.....	.....	.....
Mercer	125,000	.....	.....	.....
Morton	3,947,990	4,865,906	70,000	1,873,983
Mountrail	1,063,440	.....	.....	29,130
Nelson	17,626,260	.....	.....	10,449,394
Oliver .....	.....	.....	.....	.....
Pembina	8,905,940	.....	.....	706,064
Pierce	814,000	.....	.....	728,440
Ramsey	33,569,820	1,026,000	.....	5,873,530
Ransom	10,730,230	5,719,710	463,160	869,320
Renville	1,683,500	.....	.....	386,520
Richland	11,364,230	150,300	.....	1,634,105
Rolette	298,280	.....	401,540	586,960
Sargent	537,650	.....	.....	7,250
Sheridan	600	.....	.....	476
Stark .....	.....	.....	.....	.....
Steele	23,635,390	.....	.....	93,079
Stutsman	24,222,120	1,182,320	.....	5,004,120
Towner	35,800	8,030,000	.....	471,150
Trail	1,141,557	3,000	.....	70,737
Walsh	26,854,930	269,340	.....	1,057,816
Ward	8,118,240	133,880	.....	3,032,550
Wells	8,362,870	4,810,000	.....	810,000
Williams	8,213,675	186,240	.....	336,000
Total	346,042,481	89,387,629	22,432,298	75,782,362

RAILROAD STATION AGENTS' REPORTS—1912—Continued.

County	Oats	Barley	Hull-less Barley	Spring Rye
Adams				
Barnes	1,222,262	1,485,530		
Benson	107,788	879,008		
Bottineau	183,500			
Bowman				
Burke	1,610	70,000		
Burleigh				
Cass	5,370,300	5,949,509		547,640
Cavalier	8,061,836	8,249,140		
Dickey		50,000		
Divide				
Dunn				
Eddy		298,150		
Emmons	4,102			
Foster	3,978,100	2,253,532		120,000
Grand Forks	658,920	1,677,100		700
Griggs	1,127,200	2,527,280		149,600
Hettinger				
Kidder	113,550	175,330		266,400
LaMoure	18,790	60,000		
Logan				
McHenry	85,800	114,200		
McIntosh		7,910		
McKenzie				
McLean				
Mercer				
Morton		38,000		
Mountrail				
Nelson	613,504	1,119,894		
Oliver				
Pembina	590,987	5,103,565		
Pierce				
Ramsey	8,765,690	14,820,600		
Ransom	635,730	1,631,200		
Renville		106,000		
Richland	807,760	2,314,010		436,000
Rolette		610,000		
Sargent	60,980			
Sheridan	3,521			
Stark				
Steele	281,600	2,211,350		
Stutsman	2,087,115	2,707,895		194,820
Towner		726,100		
Trall	421,387	225,300		7,200
Walsh	1,843,625	5,410,020		80,000
Ward	116,255	81,520		
Wells	300,000	1,347,000		
Williams		40,000		
Total	38,430,013	62,288,453		1,762,360

RAILROAD STATION AGENTS' REPORTS—1912—Continued.

County	Winter Rye	Spelts	Corn	Potatoes
Adams				
Barnes	140,000			1,386,510
Benson				899,420
Billings				
Bottineau		1,000		559,070
Bowman				
Burke				973,970
Burleigh				
Cass	763,276		1,265,302	5,628,373
Cavaller	40,000			970,885
Dickey				
Divide				
Dunn				
Eddy				
Emmons	26,200	3,050	486	3,589
Foster	360,000			673,600
Grand Forks			1,080	1,440,152
Griggs				162,687
Hettinger				
Kidder	44,817			
LaMoure			395	244,570
Logan				
McHenry				1,045,370
McIntosh			1,250	71,358
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				177,980
Nelson				314,950
Oliver				
Pembina	372,724		220	1,673,768
Pierce				24,290
Ramsey				178,365
Ransom	98,220		107,095	122,640
Benvenue				1,541,645
Richland	253,340		307,766	1,901,985
Rolette				349,300
Sargent			40,870	
Sheridan				120,780
Stark				
Steele				143,000
Stutsman	84,970	1,150	625	425,830
Towner				30,650
Traill		40,000	2,963	2,189,300
Walsh	240,000			2,808,100
Ward				3,945,915
Wells				298,380
Williams				205,000
Total	2,428,547	45,200	1,728,052	31,219,761

RAILROAD STATION AGENTS' REPORTS—1912—Continued.

County	Roots	Millet Seed	Hungarian Seed	Clover Seed
Adams				
Barnes		45,000		
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass		151,485		
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
Lamoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland		72,100		
Rolette				
Sargent		12,370		
Sheridan				
Stark				
Steele				
Stutsman		100,537		
Towner				
Traill		18,316		
Walsh		480		
Ward		760		
Wells				
Williams				
Total		401,348		

RAILROAD STATION AGENTS' REPORTS—1912—Continued.

County	Timothy Seed	Alfalfa Seed	Brome Grass Seed	Hay (Tons)
Adams				
Barnes				1,552
Benson			30,000	232,565
Billings				
Bottineau				12
Bowman				
Burke				
Burleigh				
Cass	675,983			246,143
Cavaller				10,254
Dickey				
Divide				
Dunn				
Eddy				
Emmons		75	490	523
Foster				200,000
Grand Forks	64,964			32
Griggs				38
Hettinger				
Kidder			24,650	840
LaMoure				87
Logan				
McHenry			8,000	10,860
McIntosh				873
McKenzie				
McLean				
Mercer				
Morton				19,720
Mountrail				84
Nelson				122
Oliver				
Pembina	310,842			63,038
Pierce				
Ramsey	8,000			622
Ransom				4,074
Renville				120
Richland	900			12,370
Rolette				
Sargent				611
Sheridan				107
Stark				
Steele				539
Stutsman				2,299
Towner				
Trall	42,983			408
Walsh	74,435			484
Ward				133
Wells				
Williams				91
Total	1,187,107	75	63,140	808,607

SUMMARY OF AGRICULTURAL STATISTICS GATHERED IN 1912.

Number of farms in North Dakota	74,231
Number of acres under cultivation	14,693,039
Acres in farms (cultivated and uncultivated)	22,771,457

AGRICULTURAL PRODUCTS FOR 1911.

CROP	Acres Sown (Planted)	Acres Harvested	Bushels Harvested (tons cut)
Spring Wheat	7,739,993	6,851,870 ½	60,101,797
Winter wheat	8,782	5,286	53,531
Durum wheat	8,782	5,286	53,531
Flax	1,211,354	1,069,597 ½	8,162,193
Oats	1,887,439	1,695,900	36,270,626 ½
Barley	729,488	677,233	12,436,947
Hull-less Barley	602 ½	541 1/3	7,817
Spring Rye	10,445	9,593	95,515
Winter Rye	85,682 ½	32,586 ¼	440,393
Spelts	60,963 ½	55,000	694,572
Corn	392,807 ¼	*283,016 ½	2,459,363
Potatoes	36,407		3,797,864
Roots of all kinds	8,1525/6		88,9847/12
Millet	86,000		138,260 ½
Hungarian	11,925		25,143
Clover	2,926 ¼		1,805
Timothy	125,127 ½		107,800 ¾
Alfalfa	4,744 ½		9,831 ¼
Brome Grass	20,778 ¾		16,247
Other Tame Hay	26,603 ½		45,129
Wild Prairie Hay			3,983,751

ACREAGE LOST BY HAIL—1911

(Fodder)	
Total Loss	124,241 ½
Three fourth loss	89,855
One half loss	114,549 ¼
One fourth loss	243,940

CROP ACREAGE FOR 1912

Spring Wheat	6,919,522 1/6
Durum Wheat	548,968 ½
Winter Wheat	26,933
Flax	1,841,929
Oats	2,157,957
Barley	1,393,625 ¾
Hull-less Barley	3,481
Spring Rye	24,515
Winter Rye	121,870 ½
Spelts	80,048 ¼
Corn	493,470 ¾
Potatoes	67,645 17/24
Roots of all kinds	3,176 ¾
Millet	122,161
Hungarian	6,698
Clover	5,730
Timothy	84,952 ¾
Alfalfa	8,355 ¼
Brome Grass	16,942 ¼
Other Tame Grasses	6,792 ¼
Total Acreage of Crop and Tame Grasses	13,878,839 ¾
Value of Garden Products sold in 1911	\$ 167,278.61
Value of Poultry and Eggs sold in 1911	770,697.77

DAIRY PRODUCTS—1911.

Pounds of butter made in families	10,040,210
Pounds of cheese made in families	34,290
Pounds of cream sold creameries	6,636,163
Pounds of milk sold cheese factories	122,570
Pounds of milk sold creameries	1,343,321
Received for milk and cream sold to cheese factories, creameries or stations.....	\$ 806,125.48
Received for milk and cream sold other than specified.....	387,454.96
Cows milking in 1912.....	181,750

SHEEP AND WOOL—1911.

Sheep sheared	114,758
Pounds of wool clipped	741,395

ORCHARDS AND FRUITS—1911.

Fruit trees in bearing	39,137
Fruit trees not in bearing	55,905
Acres of berries	5,791 1/15
Received for fruit marketed	\$ 12,848.00
Acres of artificial forests	90,509 1/4

LIVE STOCK—1912.

Horses	508,895
Mules	7,124
Cattle	547,291
Sheep	146,427
Hogs	202,913
Total	1,412,650
Value of animals fattened and killed for home use	\$2,692,192.16
Received for cattle, hogs and sheep sold for market.....	3,914,647.01
Received for horses sold to market	2,448,394.80
Value of all kinds of stock brought to state	4,767,190.44

COAL MINES—1911.

Number of mines operated	106
Number of tons mined	309,878
Number of men employed	751
Total wages paid miners	\$60,118.25

VITAL STATISTICS.

Number of males living on farms	159,828
Number of females living on farms	128,199
Number of births	8,503
Number of deaths	1,568

FARM LABOR STATISTICS.

Number of male employes	36,714
Number of female employes	5,665
Total wages paid during the year	\$9,301,899.63

CREAMERIES, CHEESE FACTORIES AND STATIONS—1911.

Number of creameries	74
Number of pounds of butter manufactured	3,325,697
Number of milk and cream stations	64

ELEVATORS AND WAREHOUSES—1912.

Number of farmers' elevators	310
Total capacity of farmers' elevators, bushels	6,661,500
Total number of line elevators	1,404
Total capacity of line elevators, bushels.....	31,270,500
Number of lumber yards	577

FLOURING MILLS—1912.

Total number of mills	60
Total daily capacity, barrels	11,305
Total of barrels milled during 1911	788,972

NUMBER OF FARMS AND ACREAGE—1912

COUNTY	Total No. Farms	Total No. of Acres on Farms Cultivated and Uncultivated	Total No. of Acres under Cultivation
Adams	1,117	256,345	107,878
Barnes	1,640	753,963	597,580
Benson	1,370	513,200	366,442
Billings	2,151	578,024	285,637
Bottineau	2,075	816,331	609,597
Bowman	1,075	274,174	120,913
Burke	855	319,949	234,205
Burleigh	1,247	411,849	167,681
Cass	1,744	749,028	652,858
Cavaller	1,790	691,730	494,663
Dickey	1,056	536,500	342,031
Divide	1,382	339,490	191,616
Dunn	991	317,979	111,161
Eddy	597	282,322	193,418
Emmons	756	402,923	169,635
Foster	583	319,722	268,679
Grand Forks	1,721	694,419	509,515
Griggs	807	372,037	282,991
Hettinger	1,115	319,894	167,359
Kidder	1,022	307,499	142,718
LaMoure	1,180	617,002	465,326
Logan	943	326,104	138,527
McHenry	2,074	654,368	468,094
McIntosh	1,210	300,557	133,891
McKenzie	1,442	323,173	123,137
McLean	2,040	471,517	275,999
Mercer	1,118	381,754	130,928
Morton	4,400	708,088	243,003
Mountrail	1,583	393,642	170,713
Nelson	1,165	530,886	385,248
Oliver	721	217,219	76,984
Pembina	1,450	526,588	430,545
Pierce	1,400	430,570	321,724
Ramsey	1,230	575,802	431,491
Ransom	1,021	367,830	272,286
Renville	3,456	289,356	202,671
Richland	1,890	647,192	445,104
Rolette	1,025	342,096	236,879
Sargent	1,045	416,441	247,058
Sheridan	950	380,914	245,386
Stark	812	283,750	137,671
Steele	839	398,780	325,812
Stutsman	2,217	891,274	533,225
Towner	1,019	524,400	427,855
Traill	1,355	351,209	297,684
Walsh	2,148	665,197	513,822
Ward	1,478	409,332	262,046
Wells	1,286	581,817	440,927
Williams	6,639	501,171	233,076
Totals	74,231	22,771,457	14,693,039

SPRING WHEAT—1911.

COUNTY	Sown Acres	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	66,201		10,235	21,449	2.10
Barnes	290,990		273,287	2,392,889	8.76
Benson	224,374		207,720	1,898,863	9.15
Billings	158,191 ½	8,062	150,129 ½	779,065	4.46
Bottineau	419,500		373,962	2,205,465	5.91
Bowman	63,909	5,919	15,883	25,393	1.60
Burke	102,291		91,257	686,339	7.58
Burleigh	72,000		59,435	340,876	5.92
Cass	303,679		290,134	3,439,219	11.86
Cavalier	268,841		264,958	3,668,796	14.04
Dickey	99,084		84,037	385,924	4.60
Divide	103,774		103,774	1,096,085	10.57
Dunn	49,530		47,037	218,196	4.70
Eddy	96,814		95,602	984,363	10.31
Emmons	207,378		97,212	270,731	2.10
Foster	125,487		121,407	1,150,460	9.48
Grand Forks	320,451		319,227	4,682,000	14.67
Griggs	151,460		151,247	1,746,320	11.55
Hettinger	100,805 ½		37,239	95,848	2.67
Kidder	61,476		60,382	370,903	6.12
LaMoure	183,480		163,159	979,396	6.70
Logan	80,628		63,281	365,470	5.00
McHenry	291,000		189,129	947,464	5.01
McIntosh	89,564		60,138	178,217	2.80
McKenzie	54,828		47,999	227,392	4.53
McLean	161,014		114,943	510,198	4.04
Mercer	61,442		61,442	184,326	3.00
Morton	149,647		122,507	664,765	5.40
Mountrail	90,297		82,850	527,808	6.40
Nelson	214,209		197,817	2,493,647	13.00
Oliver	48,527		23,178	91,485	3.82
Pembina	17,663		154,837	2,370,095	15.38
Pierce	214,042	1,455	193,192	1,410,392	7.32
Ramsey	243,167		240,852	2,723,935	11.31
Ransom	84,929		71,945	719,367	10.00
Renville	108,080		107,226	680,319	6.64
Richland	239,474		203,075	1,559,623	7.68
Rolette	139,399	19,301	119,310	921,515	7.82
Sargent	62,776		41,117	179,561	4.40
Sheridan	124,000		107,928	387,253	3.60
Stark	86,745		63,382	198,025	3.13
Steele	176,156		173,927	1,992,180	11.46
Stutsman	276,645		225,700	1,289,843	5.77
Towner	262,429		247,022	2,594,157	10.51
Trall	162,797		161,526	2,098,476	13.00
Walsh	282,463	85	280,954	4,234,838	15.01
Ward	153,458 ½		98,501	523,815	5.32
Wells	250,922	1,137	241,927	1,584,720	6.56
Williams	154,558		132,292	1,004,129	7.58
Totals	7,739,993	35,959	6,251,370 ½	60,101,797	8.77

DURUM WHEAT—1911.

County	Acres Sown	Acres Plowed up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	2,520	.....	335	537	1.61
Barnes	42,493	.....	39,958	323,856	8.11
Benson	1,416	.....	1,310	18,003	13.75
Billings	6,384	192	6,192	68,112	11.00
Bottineau	14	.....	14	357	25.50
Bowman	775	55	344	562	1.70
Burke	2,580	.....	2,580	12,620	4.87
Burleigh	2,100	.....	1,943	16,391	8.54
Cass	20,904	.....	25,918	231,942	8.92
Cavalier	120	.....	120	1,720	14.34
Dickey	117,320	.....	92,811	402,378	4.33
Divide	30	.....	30	360	12.00
Dunn .....	.....	.....	.....	.....	.....
Eddy	7,483	.....	7,238	80,391	11.11
Emmons	2,305	.....	2,305	12,531	5.44
Foster	16,617	.....	15,736	173,280	11.02
Grand Forks	668	.....	688	11,900	18.00
Griggs	4,796	.....	4,796	64,975	11.25
Hettinger	769	.....	288	854	3.00
Kidder	2,837	.....	2,834	21,813	7.35
LaMoure	111,811	.....	94,238	557,753	5.77
Logan	4,298	.....	3,968	26,192	7.00
McHenry	20	.....	20	50	2.50
McIntosh	30	.....	30	120	4.00
McKenzie	110	.....	52	106	2.04
McLean	5,113	.....	2,307	10,661	4.63
Mercer	162	.....	162	324	2.00
Morton	195	.....	130	627	4.82
Mountrail	32	.....	23	242	10.56
Nelson	3,000	.....	3,000	28,520	9.51
Oliver	24	.....	15	76	5.07
Pembina .....	.....	.....	.....	.....	.....
Pierce	394	.....	394	3,644	9.25
Ramsey	60	.....	60	1,800	30.00
Ransom	77,427	.....	71,127	580,176	8.15
Renville	575	.....	575	4,200	7.31
Richland	3,652	.....	3,037	30,422	10.02
Rolette	25	.....	25	360	14.04
Sargent	85,187	.....	52,744	290,366	5.51
Sheridan	326	.....	326	1,915	5.86
Stark	691	.....	598	2,409	4.05
Steele	9,483	.....	9,483	128,024	13.51
Stutsman	20,406	.....	17,709	128,333	6.64
Towner	670	.....	595	8,620	14.51
Trall	1,201	.....	1,201	19,214	16.00
Walsh	35	.....	35	686	19.61
Ward	568	.....	500	3,632	7.27
Wells	18,601	.....	16,996	150,144	8.82
William	19	.....	19	121	6.37
Totals	576,246	247	483,789	3,160,329	6.53

WINTER WHEAT—1911.

County	Acres Sown	Acres Plowed up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	125		50		
Barnes	10				
Benson	34		16	300	18.75
Billings	182 ½	4 ½	178	3560	20.00
Bottineau	100		100	129	1.29
Bowman	126	5	11	20	1.82
Burke					
Burleigh	225		40	580	14.50
Cass	4089		3020	32707	17.09
Cavaller					
Dickey	17				
Divide					
Dunn					
Eddy	20				
Emmons	16				
Foster	121		121	487	4.03
Grand Forks	195		130	1731	13.32
Griggs	10				
Hettinger	3				
Kidder	138		138	1147	8.04
LaMoure	153		5	3	.60
Logan	231		204	514	2.52
McHenry	811		683	4653	6.96
McIntosh					
McKenzie	108		26	221	8.50
McLean	118		83	700	8.44
Mercer					
Morton	38		4	28	7.00
Mountrail	12				
Nelson	55		55	650	11.82
Oliver	110		25	82	3.21
Pembina	22			50	
Pierce	2		2	6	3.00
Ramsey	412		16	420	26.30
Ransom	20		20	100	5.00
Renville					
Richland	40		30	500	16.67
Rolette	184				
Sargent	59		12	40	3.34
Sheridan					
Stark					
Steele					
Stutsman	345		21	222	10.60
Towner					
Trall	541		200	3384	16.92
Walsh	90		90	1172	13.01
Ward					
Wells					
Williams	20		6	125	21.00
Totals	8,782 ½	9 ½	5,286	53,531	10.13

FLAX—1911

County	Acres Sown	Acres Plowed up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	15,991	.....	6,032	3,295	.54
Barnes	25,939	.....	22,943	226,188	9.85
Benson	26,370	.....	26,371	315,874	11.97
Billings	102,392	19,301	83,091	498,548	6.00
Bottineau	55,920	.....	53,212	423,436	7.95
Bowman	23,969	1,310	12,841	20,888	1.62
Burke	11,338	.....	10,460	58,131	5.55
Burleigh	23,497	.....	17,342	82,776	4.77
Cass	8,235	.....	10,261	64,821	6.32
Cavaller	17,635	.....	17,449	289,202	16.57
Dickey	20,998	.....	17,023	122,322	7.18
Divide	27,408	.....	27,408	166,066	6.06
Dunn	34,230	.....	32,320	178,325	5.46
Eddy	16,866	.....	15,745	185,511	11.78
Emmons	13,927	.....	7,800	36,585	4.69
Foster	14,751	.....	14,144	176,386	12.47
Grand Forks	15,875	.....	15,496	164,471	10.61
Griggs	17,220	.....	16,318	183,139	11.22
Hettinger	35,763	.....	23,010	38,564	1.67
Kidder	23,874	.....	21,177	131,900	6.22
LaMoure	30,703	.....	27,362	284,177	10.38
Logan	24,189	.....	22,209	122,321	5.51
McHenry	21,484	.....	19,153	154,383	8.06
McIntosh	13,626	.....	12,299	53,534	4.33
McKenzie	31,820 ½	.....	27,202 ½	136,935	5.03
McLean	52,955	.....	45,922	240,271	5.36
Mercer	44,693	.....	44,693	178,772	4.00
Morton	28,358	.....	21,019	95,451	4.54
Mountrail	26,112	.....	22,463	133,827	5.96
Nelson	24,857 ½	.....	23,831 ½	327,115	13.73
Oliver	7,261	.....	4,564	23,127	5.06
Pembina	15,229	.....	13,469	153,173	11.37
Pierce	14,289	195	12,289	140,300	11.42
Ramsey	31,857	.....	30,895	457,215	14.80
Ransom	8,270	.....	7,471	83,391	11.16
Renville	31,430	.....	31,387	241,313	7.05
Richland	14,164	.....	13,981	101,627	7.27
Rolette	13,597	1,026	12,115	91,722	7.57
Sargent	16,590	.....	15,207	120,237	7.91
Sheridan	15,379	.....	13,514	90,525	6.55
Stark	21,200	.....	18,958	53,068	2.85
Steele	14,141	.....	13,378	126,106	9.43
Stutsman	49,100	.....	46,563	332,987	7.15
Towner	27,291	.....	26,474	278,571	10.52
Trall	4,038	.....	8,530	37,728	10.69
Walsh	16,952	5	16,101	203,436	12.63
Ward	35,665 ½	.....	32,441	244,137	7.53
Wells	22,610	160	21,694	187,993	8.66
Williams	21,294 ½	.....	18,669 ½	98,325	5.27
Totals	1,211,854	21,997	1,069,597 ½	8,162,193	7.64

OATS—1911.

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	12,740	.....	1,767	4,005	2.27
Barnes	71,475	.....	67,664	1,737,748	25.68
Benson	49,745	.....	40,745	1,073,248	26.34
Billings	98,361	11,691	86,670	138,672	1.60
Bottineau	75,312	.....	67,547	1,184,806	16.79
Bowman	13,729	1,035	1,676	3,922	2.34
Burke	26,591	.....	24,100	388,253	16.11
Burleigh	18,458	.....	14,274	19,379	1.36
Cass	72,232	.....	68,229	2,007,281	29.42
Cavaller	83,411	.....	83,118	3,447,802	41.48
Dickey	27,409	.....	22,089	209,705	9.49
Divide	20,348	.....	20,348	479,728	23.58
Dunn	19,092	.....	13,450	131,120	9.75
Eddy	29,033	.....	28,813	859,876	29.84
Emmons	12,010	.....	7,462	57,730	7.74
Foster	40,562	.....	39,914	1,210,026	30.32
Grand Forks	74,397	.....	73,152	264,322	3.61
Griggs	33,493	.....	33,475	1,100,813	32.88
Hettinger	19,371	.....	7,942	86,334	4.58
Kidder	14,037	.....	13,953	218,983	15.69
LaMoure	37,810	.....	33,730	612,585	18.16
Logan	6,972	.....	6,210	67,810	9.31
McHenry	65,889	.....	58,641	868,297	14.81
McIntosh	4,612	.....	3,648	19,114	5.24
McKenzie	15,941	.....	12,631	112,064	8.87
McLean	48,713	.....	30,278	855,275	11.77
Mercer	16,963	.....	16,963	50,889	3.00
Morton	30,909	.....	20,624	214,012	10.37
Mountrail	21,623	.....	20,015	285,297	14.25
Nelson	44,373	.....	43,483	1,668,318	38.33
Oliver	12,262	.....	6,820	60,806	8.92
Pembina	60,018	.....	53,037	1,915,695	36.12
Pierce	40,022 ½	45	37,155 ½	766,679	20.39
Ramsey	45,654	.....	45,571	1,565,592	34.36
Ransom	81,980	.....	27,823	816,147	29.33
Renville	26,277	.....	24,344	342,557	14.07
Richland	74,248	.....	65,876	1,139,122	17.29
Rolette	36,328	2,109	33,018	467,019	14.14
Sargent	25,178	.....	20,885	295,684	14.16
Sheridan	33,122	.....	31,041	266,074	8.57
Stark	18,488	.....	14,129	56,675	4.01
Steele	37,664	.....	37,521	1,133,247	30.20
Stutsman	70,332	.....	65,142	1,498,868	23.01
Towner	60,659	.....	59,658	1,271,714	21.32
Trail	34,830	.....	34,802	1,279,367	36.76
Walsh	64,305	16	64,150	2,663,141	41.51
Ward	33,282 ½	.....	28,811	395,128	13.71
Wells	58,065	144	57,389	1,168,016	20.35
Williams	30,113	.....	26,156 ½	392,181 ½	14.99
Totals	1,887,439	15,040	1,695,900	36,270,626 ½	21.40

BARLEY—1911.

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels harvested
Adams	1,485		280	108	.42
Barnes	33,771		32,254	569,923	17.67
Benson	21,124		21,111	303,034	17.20
Billings	2,034	12	2,022	25,275	12.50
Bottineau	20,628		19,085	246,939	12.94
Bowman	1,190	36	346	222	.90
Burke	833		833	12,989	15.59
Burleigh	1,429		1,081	12,747	11.79
Cass	34,057		31,515	671,357	21.30
Cavaller	48,198		47,785	1,412,052	29.57
Dickey	24,738		20,018	127,838	6.39
Divide	10,665		10,665	14,051	1.36
Dunn	1,108		863	5,610	6.50
Eddy	8,045		8,585	189,857	22.11
Emmons	6,849		4,253	22,463	5.21
Foster	16,539		16,419	312,879	19.05
Grand Forks	33,309		32,448	850,530	26.21
Griggs	19,986		19,307	375,280	19.38
Hettinger	701		259	746	2.88
Kidder	4,085		3,924	48,088	12.25
LaMoure	22,589		19,620	221,225	11.24
Logan	10,788		10,028	86,545	8.63
McHenry	10,757		9,594	115,751	12.06
McIntosh	11,205		9,984	56,852	5.70
McKenzie	797		611	3,939	6.43
McLean	3,319		2,807	25,194	8.98
Mercer	3,480		3,480	10,440	3.00
Morton	2,564		2,006	14,738	7.35
Mountrail	1,391		1,276	14,759	11.57
Nelson	29,106		27,833	775,895	27.88
Oliver	1,583		989	5,460	5.52
Pembina	58,197		51,281	1,157,520	22.57
Pierce	14,772	25	13,910	212,168	15.25
Ramsey	34,154		33,852	747,468	22.08
Ransom	6,657		5,919	115,581	19.53
Renville	1,523		1,448	22,015	15.20
Richland	32,801		28,403	405,908	14.29
Rolette	18,196	2,642	15,147	255,887	16.89
Sargent	9,186		8,699	67,843	10.13
Sheridan	3,191		2,975	23,735	7.98
Stark	786		570	2,569	4.51
Steele	16,412		16,002	350,066	21.88
Stutsman	24,480		23,164	254,206	10.97
Towner	36,345		35,720	505,938	14.16
Trall	17,797		17,058	402,442	23.59
Walsh	40,257	100	39,588	968,070	24.45
Ward	2,421		2,198	29,461	13.43
Wells	21,817	80	20,654	306,914	14.86
Williams	1,631		1,431	14,882	10.40
Totals	729,488	2,895	677,233	12,436,947	18.36

HULL-LESS BARLEY—1911.

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	10				
Barnes	1		1	25	25.00
Benson	30		30	700	23.33
Billings	54	4	50	593	11.86
Bottineau	42	42	42	700	16.67
Bowman					
Burke	128		128	1,945	15.19
Burleigh	15				
Cass					
Cavallier					
Dickey	10		10	45	4.50
Divide			1 2/3	25	75.00
Dunn					
Eddy					
Emmons					
Foster	3		3	60	20.00
Grand Forks	7		7	200	28.57
Griggs					
Hettinger					
Kidder	40		40	300	7.50
LaMoure					
Logan	6		6	157	26.17
McHenry	15		15	15	.01
McIntosh					
McKenzie	25				
McLean	11		10	55	5.50
Mercer					
Morton	15		15	140	9.33
Mountairil	5		5	56	11.20
Nelson					
Oliver					
Pembina					
Pierce					
Ramsey	40		40	760	19.00
Ransom	10		10	300	30.00
Renville					
Richland	20		20	400	20.00
Rolette	2		2	25	12.50
Sargent					
Sheridan					
Stark					
Steele	1		1	16	16.00
Stutsman	53		53	848	16.00
Towner					
Trall					
Walsh	5		5	190	38.00
Ward	5 1/2		5	58	11.60
Wells					
Williams	34		34	104	3.06
Totals	602 1/2	4	541 1/3	7,817	14.45

SPRING RYE—1911

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams					
Barnes	307		257	3,160	12.30
Benson	25		25	480	19.20
Billings					
Bottineau	131		131	1,762	13.45
Bowman					
Burke	46		36	146	4.06
Burleigh	867		827	4,929	5.96
Cass	448		341	4,410	12.93
Cavaller	50		50	1,120	22.40
Dickey	35		35	125	3.57
Divide	4		4	61	15.25
Dunn	5		5	50	10.00
Eddy	570		570	7,748	13.59
Emmons	65		65	435	6.69
Foster	680		680	13,875	20.40
Grand Forks	10		10	150	15.00
Griggs	89		88	1,816	20.64
Hettinger					
Kidder	1,569		1,519	11,342	67.47
LaMoure	36		36	320	8.89
Logan	363		263	944	3.59
McHenry	562		477	2,636	5.53
McIntosh	50		50	127	2.54
McKenzie	2		2	10	5.00
McLean	171		152	1,117	7.35
Mercer	75		75	375	5.00
Morton	4		4	50	12.50
Mountrail	301 1/2		301 1/2	2,277	7.56
Nelson					
Oliver	18		18	80	4.44
Pembina	176		185	2,545	13.76
Pierce	249		199	1,290	6.48
Ramsey	5		5	150	30.00
Ransom	595		545	2,335	4.28
Renville	5 1/2		5 1/2	60	10.91
Richland	254		254	3,465	13.64
Rolette	40		40	150	3.75
Sargent	21		7	70	10.00
Sheridan	212		180	1,234	6.88
Stark	45				
Steele	340		140	2,700	19.29
Stutsman	978		973	9,581	9.25
Towner	20		20	500	25.00
Traill	410		410	8,905	21.72
Walsh	122		99	3,000	30.30
Ward	105		25	72	2.88
Wells	454		454	3,663	8.07
Williams	31		30	250	8.33
Totals	10,445		9,593	95,515	9.96

WINTER RYE—1911.

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	301	.....	6	4	.66
Barnes	4,137	.....	563	9,067	16.10
Benson	299	.....	134	1,780	13.28
Billings	8	.....	8	80	10.00
Bottineau	2,290	.....	1,407	11,740	8.34
Bowman	219	.....	.....	.....	.....
Burke	155	.....	97	568	5.86
Burleigh	714	.....	285	2,235	7.84
Cass	14,555	.....	8,113	121,185	14.94
Cavaller	155	.....	105	688	6.55
Dickey	3,256	.....	78	1,486	19.05
Divide	382	.....	272	3,491	12.83
Dunn .....	.....	.....	.....	.....	.....
Eddy	502	.....	384	4,090	11.24
Emmons	454	.....	340	3,218	9.46
Foster	2,214	.....	352	5,576	15.84
Grand Forks	1,165	.....	380	3,975	10.46
Griggs	843	.....	408	8,025	19.67
Hettinger	66	.....	30	90	3.00
Kidder	2,965	.....	1,521	14,791	9.72
LaMoure	6,472	.....	947	12,105	12.78
Logan	819	.....	173	1,552	8.97
McHenry	2,536	.....	1,660	12,903	7.77
McIntosh	38	.....	38	228	6.00
McKenzie	136 1/4	.....	110	600	5.45
McLean	652	.....	180	1,578	8.77
Mercer	790	.....	790	3,950	5.00
Morton	70	.....	51	410	8.04
Mountrail	106 1/4	.....	77	505	6.56
Nelson	2,749	.....	630	9,500	15.08
Oliver	25	.....	.....	.....	.....
Pembina	1,018	.....	1,019	16,447	16.14
Pierce	2,383	.....	418	3,585	8.58
Ramsey	2,066	.....	998	16,988	16.93
Ransom	3,419	.....	1,066	13,294	12.47
Renville	8	.....	8	47	5.87
Richland	8,642	.....	2,970	53,639	18.06
Rolette	50	.....	.....	.....	.....
Sargent	1,637	.....	899	7,684	8.55
Sheridan	66	23	43	178	4.14
Stark	203	.....	203	1,068	5.26
Steele	1,003	.....	205	3,620	17.66
Stutsman	6,276	.....	668	8,073	12.09
Towner	165	.....	80	300	3.75
Trall	6,445	.....	2,977	52,355	17.59
Walsh	1,143	.....	984	21,879	22.23
Ward	138	.....	73	580	7.95
Wells	826	.....	504	2,935	5.82
Williams	520 1/4	.....	352 1/4	2,303	6.54
Totals	85,682 1/4	23	32,586 1/4	440,393	13.51

SPELTZ—1911.

COUNTY	Acres Sown	Acres Plowed Up	Acres Harvested	Bushels Harvested	Average Yield Bushels Harvested
Adams	851		94	164	1.74
Barnes	1,309		1,282	15,548	12.12
Benson	460		460	10,917	23.73
Billings	3,981	103	3,878	56,383	14.54
Bottineau	527		527	9,530	18.08
Bowman	236	66	97	139	1.43
Burke	93		93	2,115	22.74
Burleigh	2,846		2,451	27,088	11.05
Cass	453		1,245	11,521	9.25
Cavaller	250		250	10,343	41.37
Dickey	5,763		4,265	36,446	8.55
Divide	245 ½		245 ½	5,959	24.32
Dunn	204		194	1,472	7.59
Eddy	1,419		1,419	36,955	26.04
Emmons	3,823		3,082	23,469	7.61
Foster	820		820	19,105	23.30
Grand Forks	631		631	11,285	17.88
Griggs	398		398	10,567	26.55
Hettinger	347		234	904	3.86
Kidder	1,321		1,288	20,042	15.56
LaMoure	3,346		3,287	52,024	15.83
Logan	5,532		5,021	49,475	9.85
McHenry	480		452	6,095	13.48
McIntosh	6,715		6,005	35,254	5.87
McKenzie	200		179	1,215	6.79
McLean	831		802	7,548	9.41
Mercer	1,200		1,200	2,400	2.00
Morton	845		657	4,988	7.59
Mountrail	264 ½		263 ½	3,806	14.47
Nelson	548		533	15,575	29.22
Oliver	166		49	400	8.16
Pembina	18		18	495	27.50
Pierce	336		326	6,820	20.92
Ramsey	715		715	19,204	26.86
Ransom	1,463		1,270	34,662	27.29
Renville	239		239	5,271	22.05
Richland	488		425	6,756	15.90
Rolette	86		86	730	8.49
Sargent	2,820		2,198	24,456	11.13
Sheridan	1,082		960	8,482	8.84
Stark	232		208	1,014	4.87
Steele	229		228	6,417	28.02
Stutsman	3,963		3,867	42,151	10.90
Towner	701		701	15,701	22.40
Trall	72		72	3,150	43.75
Walsh	60		60	2,099	34.98
Ward	402 ½		315	4,638	14.72
Wells	1,169		1,169	22,112	18.92
Williams	783		740	1,682	2.27
Totals	60,963 ½	169	55,000	694,572	12.63

CORN—1911.

County	Acres Planted	Cut for Fodder	Acres Husked	Bushels Husked
Adams	3,907	2,144	123	114
Barnes	23,472	20,550	4,451	115,513
Benson	4,411	3,302	189	3,316
Billings	2,801	1,994	807	13,719
Bottineau	7,906	7,539	28	1,801
Bowman	3,532	2,339	471	1,171
Burke	3,508	3,395	28	415
Burleigh	7,938	3,240	3,863	45,870
Cass	41,468 $\frac{1}{2}$	36,621 $\frac{1}{2}$	26,527 $\frac{1}{2}$	395,391
Cavaller	1,286 $\frac{1}{2}$	1,286 $\frac{1}{2}$	34	195
Dickey	16,826	9,030	6,065	153,724
Divide	1,109 $\frac{1}{2}$	1,036	$\frac{1}{2}$	14
Dunn	1,304	926	320	9,842
Eddy	2,266 $\frac{1}{2}$	1,853	147	7,300
Emmons	9,530	4,856	3,477	45,639
Foster	5,376	4,639 $\frac{1}{2}$	697 $\frac{1}{2}$	23,335
Grand Forks	29,625	21,714	1,659	43,151
Griggs	3,360	2,769	801	14,431
Hettinger	1,852	679	281	2,518
Kidder	3,806	1,562		24,504
LaMoure	11,760	6,581	3,298 $\frac{1}{2}$	114,085
Logan	1,067	320	385	7,687
McHenry	11,557	9,262	2,255	30,143
McIntosh	1,430	62	990	19,890
McKenzie	2,132 $\frac{1}{2}$	1,564	568 $\frac{1}{2}$	6,718
McLean	6,491	5,597	1,266	13,335
Mercer	1,560	307	1,500	23,400
Morton	8,122	4,352	3,640	62,147
Mountrail	877	658 $\frac{1}{2}$	8 $\frac{1}{2}$	5
Nelson	8,816	6,641 $\frac{1}{2}$	2,064 $\frac{1}{2}$	5,910
Oliver	4,405	2,802		
Pembina	9,642	10,017	31	650
Pierce	2,695 $\frac{1}{2}$	2,034 $\frac{1}{2}$	394 $\frac{1}{2}$	6,488
Ramsey	5,285	5,040	163	19,204
Ransom	10,134	10,280	5,240	214,999
Benville	5,743	5,683	24	650
Richland	36,860	20,724	27,352	669,100
Rolette	721	710	7	50
Sargent	15,269		6,529	207,220
Sheridan	1,782	1,033	586	8,230
Stark	1,783	868	789	5,332
Steele	8,602	7,496	1,012	17,375
Stutsman	11,575	8,832	2,743	71,044
Towner	1,777	1,685	76	
Trail	14,317	13,594	1,234	29,209
Walsh	12,982	12,567	308	8,140
Ward	5,789 $\frac{1}{2}$	5,516 $\frac{1}{2}$	174 $\frac{1}{2}$	3,605
Wells	6,814	6,161	665	9,658
Williams	1,944	1,861	183	3,131
Totals	392,807 $\frac{1}{2}$	283,016 $\frac{1}{2}$	113,334 $\frac{1}{2}$	2,459,363

POTATOES—1911.

County	Acres Planted	Busbels Dug	Average Yield Busbels Dug
Adams	394	8,160	20.71
Barnes	1,833	184,020	100.54
Benson	600	95,987	159.98
Billings	847 $\frac{1}{2}$	62,587	62.08
Bottineau	1,315	172,287	131.0
Bowman	419 $\frac{1}{2}$	9,901	23.63
Burke	586 $\frac{1}{2}$	51,024	87.07
Burleigh	631	48,359	76.64
Cass	2,332 $\frac{1}{2}$	245,172	105.13
Cavaller	985	128,944	130.91
Dickey	640	67,915	106.12
Divide	869	31,897	86.44
Dunn	2,542 $\frac{2}{3}$	20,635	81.24
Eddy	332 $\frac{1}{2}$	54,115	163.00
Emmons	275	20,674	75.18
Foster	418 $\frac{1}{2}$	60,343	144.36
Grand Forks	2,095	284,708	135.90
Griggs	3,901 $\frac{1}{8}$	56,518	144.92
Hettinger	333 $\frac{1}{2}$	11,750	35.29
Kidder	213	20,459	96.10
LaMoure	695 $\frac{1}{2}$	87,118	125.35
Logan	291	23,411	80.45
McHenry	951	127,901	134.49
McIntosh	364	21,031	57.77
McKenzie	4,652 $\frac{1}{3}$	38,237	82.23
McLean	152	62,073	408.87
Mercer	256	28,870	112.77
Morton	879	73,917	84.09
Mountrail	702	55,870	78.87
Nelson	1,175 $\frac{1}{2}$	82,343	70.08
Oliver	345	31,475	91.23
Pembina	1,232	183,304	148.79
Pierce	478 $\frac{1}{2}$	73,612	154.00
Ramsey	753	112,013	148.76
Ransom	699 $\frac{1}{2}$	28,001	40.06
Benville	589	81,192	137.85
Richland	1,521 $\frac{1}{2}$	185,308	121.83
Rolette	564	83,112	147.36
Sargent	1,943	57,563	29.63
Sheridan	400	41,368	103.42
Stark	377	18,176	48.21
Steele	432	58,983	136.53
Stutsman	798	137,592	172.42
Towner	752	90,470	120.31
Traill	608	70,755	116.37
Walsh	1,583 $\frac{1}{2}$	178,519	112.77
Ward	940 $\frac{1}{2}$	100,151	106.54
Wells	779	18,863	24.21
Williams	916	71,701	78.28
Totals	36,407	3,797,864	104.32

ROOTS OF ALL KINDS—1911

County	Planted Acres	Dug Bushels
Adams	20	598
Barnes	136	1,808
Benson	58	2,061
Billings	193	6,755
Bottineau	54	2,125
Bowman	12 1/4	502
Burke	2 1/2	313
Burleigh	95	918
Cass	3,368 1/4	817
Cacaller	22 3/8	7,596
Dickey	1 1/2	300
Divide	834	1,370 1/3
Dunn	23 1/8	524
Eddy	16 1/4	1,599
Emmons		
Foster	6 1/2	1,675
Grand Forks	1,204	6,225
Griggs	264 3/4	4,359
Hettinger	4	230
Kidder	18	513
LaMoure	7 3/4	1,352
Logan	24	107
McHenry	18	1,197
McIntosh		
McKenzie	163 1/2	8,873
McLean	829	2,598
Mercer		
Morton	11	516
Mountrail	27 3/4	5,263
Nelson	82 1/4	892
Oliver		
Pembina	12 3/8	3,204
Pierce	4 1/2	1,252
Ramsey	120	1,358
Ransom	10	1,239 1/4
Benville	8 1/4	1,745
Richland	10	185
Rolette	293	5,594
Sargent	1 1/8	16
Sheridan	63	1,694
Stark	30	813
Steele	1 1/3	300
Stutsman	17 1/2	1,197
Towner	12	2,078
Traill	2 1/2	150
Walsh	2 1/8	400
Ward	10 3/8	1,082
Wells	22	2,168
Williams	28	3,895
Totals	8,152 5/6	88,984 7/12

HAY—1911

Millet

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams	380	.....	47
Barnes	6,670	.....	11,822
Benson	2,485	.....	5,266
Billings	572	.....	492
Bottineau	1,154	.....	2,089
Bowman	185	.....	69
Burke	96	.....	141
Burleigh	452	.....	715
Cass	2,406 1/2	.....	3,998
Cavalier	377 1/2	.....	528
Dickey	2,286	.....	4,409
Divide	164 3/4	.....	202 1/2
Dunn	127 1/4	.....	172 1/2
Eddy	2,353	.....	4,179
Emmons	410	.....	574
Foster	3,156	.....	6,350
Grand Forks	4,332	.....	6,426
Griggs	2,454 1/2	.....	4,467
Hettinger	149	.....	80
Kidder	312	.....	420
LaMoure	5,115 1/2	.....	6,562
Logan	248	.....	150
McHenry	1,881	.....	2,184
McIntosh	58	.....	105
McKenzie	268	.....	329
McLean	902	.....	1,140
Mercer	275	.....	275
Morton	2,326	.....	3,005
Mountrail	192	.....	175
Nelson	733	.....	1,279
Oliver	908	.....	1,076
Pembina	1,642	.....	2,035
Pierce	1,988	.....	3,652
Ramsey	1,145	.....	2,284
Ransom	2,360	.....	3,635
Renville	529	.....	999
Richland	3,446 1/2	.....	5,562
Rolette	364	.....	559
Sargent	2,484	.....	5,211
Sheridan	1,063	.....	1,877
Stark	158	.....	158
Steele	4,297	.....	6,428
Stutsman	4,408	.....	7,720
Towner	1,153	.....	2,225
Trall	5,530	.....	7,162
Walsh	4,205	.....	5,612
Ward	802 1/2	.....	1,297
Wells	6,829	4	12,349
Williams	167	.....	140 1/2
Totals	86,000	4	138,260 1/2

HAY—1911

Hungarian

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams			
Barnes	179		340
Benson	60		900
Billings			
Bottineau	822		
Bowman			
Burke			
Burleigh	2		
Cass	5		10
Cavaller	5		10
Dickey	21		25
Divide			
Dunn	15		
Eddy			
Emmons			
Foster			
Grand Forks	5,121		16,815
Griggs	423		882
Hettinger	5		7
Kidder	15		35
LaMoure	87		190
Logan			
McHenry	140		35
McIntosh			20
McKenzie	6		20
McLean	1		3
Mercer			
Morton			
Mountrail			
Nelson	18		4
Oliver	18		27
Pembina	443		372
Pierce			
Ramsey	172		25
Ransom			
Renville			
Richland	76		112
Rolette	109		108
Sargent	34		81
Sheridan	50		
Stark			
Steele	45		72
Stutsman	292		442
Towner			
Trall	103		122
Walsh	3,655	18	4,410
Ward	21		36
Wells			
Williams			
Totals	11,925	18	25,143

HAY—1911

Clover

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams	15		
Barnes	46		20
Benson	77		9
Billings	87		45
Bottineau	93		55
Bowman	1 1/2		
Burke	11		5
Burleigh	5		4
Cass	759		310
Cavaller	124		94
Dickey	18		15
Divide	13		10
Dunn			
Eddy	13		
Emmons			
Foster	17		13
Grand Forks	728		120
Griggs	27		27
Hettinger			
Kidder	4		
La Moure	49 1/4		
Logan			
McHenry	12 1/2		
McIntosh			
McKenzie	8 1/2		4 1/2
McLean	1		2
Mercer			
Morton	1		2
Mountrail	3		
Nelson	88 1/2		4
Oliver	2		
Pembina	745		613
Pierce	10		
Ramsey	82		48
Ransom	12		8 1/2
Renville	5		
Richland			
Rolette	43		29
Sargent	6		9
Sheridan			
Stark	15		
Steele	25		5
Stutsman	36		40
Towner	163		20
Trall	378		79
Walsh	198		213
Ward	10		
Wells			1
Williams			
Totals	2,926 1/4		1,805

HAY—1911

Timothy

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams	35	.....	6
Barnes	2,690	.....	2,975
Benson	753	.....	529
Billings	387	.....	157 1/2
Bottineau	2,246	.....	1,681
Bowman	63	.....	.....
Burke	319	.....	405
Burleigh	359	.....	143
Cass	16,004	.....	15,809
Cavaller	1,895	.....	2,144
Dickey	1,359	.....	689
Divide	38	.....	38
Dunn	17 1/2	.....	14
Eddy	1,095	.....	1,274
Emmons	101	.....	54
Foster	489	.....	574
Grand Forks	16,815	.....	12,473
Griggs	284	.....	299 1/4
Hettinger	271	.....	19
Kidder	54	.....	43
LaMoure	3,533 1/2	.....	2,099
Logan	21	.....	12
McHenry	1,085	.....	708
McIntosh .....	.....	.....	.....
McKenzie	88 1/2	.....	33
McLean	193	.....	164
Mercer	140	.....	210
Morton	65	.....	20
Mountrail	249 1/4	.....	107 1/2
Nelson	1,495	.....	1,142
Oliver	92	.....	59
Pembina	19,313	.....	20,780
Pierce	526	.....	174
Ramsey	82	.....	48
Ransom	3,386	.....	4,039 1/2
Renville	1,178 3/4	.....	1,197 112
Richland	5,831	.....	4,096
Rolette	253	.....	135
Sargent	2,293	.....	1,475
Sheridan	49	.....	55
Stark	281	.....	33
Steele	1,915	.....	2,072
Stutsman	367	.....	377
Towner	551	.....	616
Trall	22,045	.....	13,556
Walsh	11,574	29	11,930
Ward	581	.....	425
Wells	1,268	.....	1,188
Williams	355	.....	186 1/2
Totals	125,127 1/2	29	107,800 3/4

HAY—1911

Alfalfa

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams	120		7
Barnes	229		195
Benson	74		75
Billings	178		198
Bottineau	107		92
Bowman	80 1/2		44
Burke	4 3/4		11 1/2
Burleigh	103		9
Cass	69 3/4		100 1/2
Cavaller	77		26
Dickey	79		16
Divide	20		6
Dunn	123 3/4		145
Eddy	31 1/8		71
Emmons	47		12
Foster	66 3/4		64
Grand Forks	65		140
Griggs	87 1/4		15 1/4
Hettinger	9 1/2		
Kidder	189		24
LaMoure	79 1/2		43
Logan	1/2		
McHenry	287		149 1/2
McIntosh			
McKenzie	479 1/2		766
McLean	141		69
Mercer	118		236
Morton	83		57
Mountrail	43 3/4		29 1/2
Nelson	109 3/4		57
Oliver	28		23
Pembina	112		38
Pierce	107 3/4		24 1/2
Ramsey	132		207
Ransom	53 1/4		136
Renville	47		42 1/2
Richland	10 3/4		23
Rolette	24		13
Sargent	135		9
Sheridan	9		6
Stark	55		38
Steele	64		21
Stutsman	196		166
Towner	79		49
Trall	72		72
Walsh	23		32
Ward	91 5/6		65
Wells	78		56
Williams	424 1/2		6,152
Totals	4,744 1/2		9,831 1/4

HAY—1911

Brome Grass

County	Acres Sown	Acres Plowed Up	Tons Cut
Adams	19	.....	.....
Barnes	912	.....	755
Benson	471	.....	367
Billings	307	.....	150
Bottineau	618	.....	269
Bowman	35	.....	6
Burke	342	.....	340
Burleigh	210	.....	50
Cass	203	.....	268
Cavalier	783	.....	567
Dickey	113	.....	181
Divide	104 1/2	.....	73
Dunn	23	.....	10
Eddy	1,741	.....	1,300
Emmons	34	.....	25
Foster	921 1/2	.....	2,492
Grand Forks	860	.....	682
Griggs	798	.....	444 1/2
Hettinger	185	.....	35
Kidder	139	.....	46
LaMoure	548 3/4	.....	382
Logan	64	.....	54
McHenry	899	.....	434
McIntosh	18	.....	15
McKenzie	37 1/2	.....	13
McLean	529	.....	393
Mercer	85	.....	170
Morton	71	.....	26
Mountrail	174	.....	43 1/2
Nelson	428	.....	499
Oliver	38	.....	25
Pembina	115	.....	168
Pierce	492 1/2	.....	145
Ramsey	408	.....	407
Ransom	111	.....	158
Renville	277	.....	199
Richland	140	.....	83
Rolette	405	.....	249
Sargent	69	.....	9
Sheridan	252	.....	59
Stark	821	.....	240
Steele	530	.....	758
Stutsman	1,001	.....	462
Towner	1,191	.....	252
Trall	376	.....	380
Walsh	1,012	.....	1,673
Ward	268 1/2	.....	178
Wells	1,332	.....	665
Williams	266 1/2	.....	51
Totals	20,778 3/4	.....	16,247

HAY—1911

COUNTY	Other Tame Hay			Wild Prairie Hay Tons Cut
	Acres Sown	Acres Plowed Up	Tons Cut	
Adams	28	.....	61	4,708
Barnes	754	.....	1,920	45,424
Benson	83	.....	181	37,561
Billings	97	.....	108	27,463
Bottineau	578	.....	684	21,490
Bowman	17	.....	883	643
Burke	195	.....	860	9,030
Burleigh .....	.....	.....	50	48,114
Cass	3,851 1/2	.....	4,640	22,412
Cavaller	536	.....	433	49,012
Dickey	150	.....	74	51,124
Divide	30	.....	25	2,344,090
Dunn .....	.....	.....	.....	38,465
Eddy	182	.....	350	20,912
Emmons .....	.....	.....	.....	47,040
Foster	142	.....	231	13,658
Grand Forks	1,593	.....	2,680	37,933
Griggs	347	.....	533	19,375
Hettinger .....	.....	.....	133	.....
Kidder	1,298	.....	.....	52,911
La Moure	169	.....	747	48,711
Logan .....	.....	.....	.....	59,921
McHenry	157	.....	419	36,737
McIntosh	591	.....	35	39,902
McKenzie	950	.....	766	27,154
McLean	60	.....	2,206	37,580
Mercer .....	.....	.....	.....	149,240
Morton	6,517	.....	3,139	38,178
Mountrail	24	.....	1,904	7,861
Nelson	30	.....	984	50,402
Oliver	24	.....	9	19,857
Pembina	836	.....	3,431	21,278
Pierce	65	.....	637	30,402
Ramsey	28	.....	56	58,649
Ransom	291	.....	830	35,732
Renville	33	.....	235	6,466
Richland	2,863	.....	4,814	49,496
Rolette	8	.....	7	20,725
Sargent	185	.....	260	42,226
Sheridan	13	.....	19	20,025
Stark	488	.....	521	22,056
Steele	260	.....	597	26,551
Stutsman	798	.....	3,077	105,203
Towner	172	.....	294	30,454
Traill	54	.....	911	7,401
Walsh	691	.....	964	38,714
Ward	629	.....	186	18,709
Wells	1,150	.....	3,605	24,886
Williams	158	.....	1,240	21,515
Totals	26,603 1/2	.....	45,129	3,983,751

ACREAGE LOST BY HAIL—1911.

County	Acres Total Loss	Acres 8% Loss	Acres 1% Loss	Acres 1% Loss	Total Acres Affected
Adams	2,976	7	115	15	3,113
Barnes	1,335	1,430	898	5,931	9,594
Benson	9,807	7,007	19,063	23,986	59,863
Billings	2,607	2,301	1,720	3,451	10,079
Bottineau	17,137	12,652	9,416	106,163	145,369
Bowman	3 1/2			50	53 1/2
Burke	278	6,812	6,540	2,504	16,134
Burlingame	168		36		204
Cass	470	2,330	1,815	9,260	14,079
Cavalier	3,673	2,326	2,655	740	9,394
Dickey	15,708	8,630	6,553	1,640	32,531
Divide	20	700	827	3,304	4,851
Dunn	40	40			80
Eddy	70	560	585	5,401	6,616
Emmons					
Foster	60	355	3,305	4,652	8,372
Grand Forks	455	665	2,190	15,979	19,289
Griggs	55		50	350	455
Hettinger	32		515	125	672
Kidder	1,145	576	297	358	2,376
LaMoure	225		1,056	1,175	2,456
Logan	1,161				1,161
McHenry	18,216	6,224	11,915	3,215	39,570
McIntosh	690	90	70		850
McKenzie	3,994	2,264	5,756	4,148	16,162
McLean	375	350	240	1,317	2,282
Mercer					
Morton	83		300	115	498
Mountrail	1,015	1,080	1,672 1/2	6,144	9,911 1/2
Nelson	130		613	3,958	4,701
Oliver	155			55	4,911
Pembina	3,542	3,604	4,643	4,192	15,981
Pierce	3,932	7,162	6,255	7,200	24,549
Ramsey	1,605	1,477	2,482	3,753	33,866
Ransom	1	110	365	200	676
Renville		800	1,280	2,175	4,255
Richland	578	100	703		5,636
Rolette	225	50	320	730	1,325
Sargent	15				15
Sheridan	11,554	6,895	5,131	2,829	26,409
Stark	1,107	172	300	185	1,764
Steele	2,125	4,064	2,988	1,727	10,904
Stutsman	2,156	1,205	1,152	3,028	7,541
Towner	1,171		550	1,120	2,841
Trall				255	255
Walsh	190		215	50	455
Ward	1,760	570	1,165	1,877	5,372
Wells	490	1,698	4,080	7,509	13,777
Williams	11,907	5,549	4,718	3,074	39,025
Totals	124,241 1/2	89,855	114,549 1/2	243,940	572,585

ACREAGE FOR 1912.

County	Spring Wheat	Durum Wheat	Winter Wheat	Flax	Oats
Adams	71,597	1,469	80	20,705	14,321
Barnes	239,340	40,726	161	52,539	81,608
Benson	183,237	3,179	82	57,441	52,294
Billings	238,462	6,897	375	134,601	125,606
Bottineau	306,124	120	2,930	77,458	82,139
Bowman	67,490	1,128	169	24,175	14,535
Burke	80,536	69	245	20,168	26,589
Burleigh	73,022	2,664	293	22,604	17,690
Cass	252,654	46,310	2,742	21,713	92,595
Cavaller	204,261	160	7	35,063	109,456
Dickey	113,768	86,995	218	21,959	24,684
Divide	92,580	26	115	42,772	26,919
Dunn	63,083	240	11	34,921	17,477
Eddy	68,150	9,196	170	24,755	40,057
Emmons	111,436	3,910	21	15,965	9,223
Foster	83,329	21,822	3,315	26,848	49,260
Grand Forks	302,334	1,595	1,483	26,803	84,547
Griggs	124,283	9,512	40	23,605	39,191
Hettinger	112,906	411	293	21,637	21,579
Kidder	60,465	4,088	148	21,361	17,845
LaMoure	197,895	72,846	20	34,804	43,678
Logan	87,463	2,800	274	32,453	5,511
McHenry	279,004	135	.....	31,209	72,752
McIntosh	89,687	.....	.....	15,493	3,781
McKenzie	55,805	86	317	49,675	18,571
McLean	152,616	9,024	90	57,214	44,098
Mercer	73,654	194	.....	53,631	20,355
Morton	157,028	213	55	28,099	28,405
Mountrail	82,619	13	62	40,732	26,116
Nelson	158,954	4,282	772	53,179	57,259
Oliver	44,872	140	29	8,685	11,189
Pembina	135,703	885	.....	26,313	69,652
Pierce	190,853	336	432	25,680	45,050
Ramsey	192,358	88	572	66,455	55,875
Ransom	65,321	72,935	506	14,530	37,327
Renville	87,797	.....	.....	39,385	28,041
Richland	218,504	6,740	338	166,641	82,411
Rolette	114,337	.....	50	25,033	36,953
Sargent	54,474	63,200	55	22,701	29,143
Sheridan	107,418	463	.....	15,998	25,069
Stark	87,169	1,031	370	13,227	16,920
Steele	137,751	17,110	1,321	18,031	47,447
Stutsman	244,817	21,408	865	52,221	98,182
Towner	222,390	2,722	470	59,119	59,016
Traill	129,788	1,703	1,187	6,753	40,591
Walsh	231,684	615	25	25,559	71,884
Ward	123,518 1/2	793 1/2	3,624	51,771	35,406
Wells	208,322	28,579	250	37,594	66,086
Williams	138,573 2/3	195	2,351	42,642	33,942
Totals	6,910,522 1/6	548,968 1/2	26,933	1,841,929	2,157,957

ACREAGE FOR 1911—Continued.

County	Barely	Hull-less Barley	Spring Rye	Winter Rye	Spelts
Adams	3,538	35	1	433	247
Barnes	65,144	20	1,075	5,233	989
Benson	53,654	50	133	383	677
Billings	1,972	45	.....	314	4,001
Bottineau	7,458	89	299	1,810	931
Bowman	1,114	12	34	107	276
Burke	3,422	40	33	238	149
Hurleigh	4,082	118	1,772	2,193	3,815
Cass	81,631	2,179	1,117	18,804	2,489
Cavalier	91,213	137	75	85	277
Dickey	28,793	159	35	3,502	5,909
Divide	3,133	13	167	164	489
Dunn	1,575	30	42	7	277
Eddy	24,403	340	1,010	1,107	1,546
Emmons	7,740	10	177	3,201	4,896
Foster	33,501	10	177	3,201	4,869
Grand Forks	76,004	30	82	1,045	4,178
Griggs	37,665	10	183	744	480
Hettinger	1,830	18	4	35	867
Kidder	14,018	204	3,643	4,797	3,012
LaMoure	43,708	23	351	16,961	4,467
Logan	15,149	6	740	1,568	6,367
McHenry	21,026	120	1,020	4,662	1,201
McIntosh	12,156	.....	117	76	6,095
McKenzie	1,695 ¾	118	64	31	285 ¾
McLean	7,201	183	504	834	1,130
Mercer	4,176	.....	90	948	1,440
Morton	5,373	47	66	320	1,765
Mountrail	3,158	3	607	140	490 ½
Nelson	61,875	42	100	1,218	546
Oliver	2,285	11	22	14	184
Pembina	88,005	55	143	1,517	15
Pierce	32,412 ½	10	1,027	2,512	609 ½
Ramsey	74,295	229	64	941	689
Ransom	18,925	45	1,328	4,609	2,151
Renville	4,737	.....	98	55	561
Richland	48,947	.....	397	9,206	726
Rolette	35,102	906	200	20	284
Sargent	12,714	173	178	3,532	3,111
Sheridan	8,353	120	234	75	1,417
Stark	1,218	111	10	80	291
Steele	38,644	7	18	1,211	476
Stutsman	53,542	265	2,467	10,782	5,363
Towner	64,513	40	3	.....	1,413
Trall	47,453	20	.....	7,064	135
Walsh	84,962	83	163	2,499	80
Ward	7,589	35	268	315	430
Wells	47,924	12	2,714	326	1,484
Williams	4,615 ½	58	60	529 ½	649
Totals	1,393,625 ¾	8,481	24,515	121,870 ½	10,048 ¾

ACREAGE FOR 1912—Continued.

County	Corn	Potatoes	Roots of All Kinds	Millet	Hungarian
Adams	6,715	400	61	692	1
Barnes	30,694	2,191	36	7,405	222
Benson	4,938	8,375	76	2,903	65
Billings	5,450	1,012	283	648	—
Bottineau	10,100	1,640	26	1,938	34
Bowman	7,563	423	135	846	—
Burke	2,827 $\frac{1}{2}$	547 $\frac{1}{2}$	%	53	—
Burleigh	7,279	2,343	41	752	5
Cass	52,331	5,311 $\frac{1}{2}$	74 $\frac{1}{2}$	2,916	10
Cavaller	1,643	1,115	81	808	4
Dickey	28,112	1,197	20 $\frac{3}{4}$	10,069	203
Divide	1,163	389	13	267	10
Dunn	3,254 $\frac{1}{2}$	3591/3	32 $\frac{1}{2}$	425	5
Eddy	2,935	556 %	13 $\frac{3}{4}$	1,899	—
Emmons	11,334	319	2	909	—
Foster	6,378	790	41 $\frac{1}{2}$	3,253	—
Grand Forks	20,058	3,112	78	4,046	—
Griggs	5,184 $\frac{3}{4}$	704 $\frac{1}{2}$	8 $\frac{1}{2}$	2,867	154
Hettinger	3,847	450 %	18 $\frac{1}{2}$	1,028 $\frac{1}{2}$	20
Kidder	3,955	367	33	633	—
LaMoure	18,908 $\frac{3}{4}$	1,235 $\frac{1}{2}$	27 $\frac{1}{2}$	6,281 $\frac{1}{2}$	227
Logan	2,630	385	8	746	10
McHenry	15,781 $\frac{1}{2}$	1,800 $\frac{1}{2}$	33 $\frac{3}{4}$	3,338	11
McIntosh	4,511	353	—	362	—
McKenzie	3,019 %	784 $\frac{1}{2}$	331	601	35
McLean	5,852	3,676	999	1,371	23
Mercer	1,872	283	—	330	—
Morton	10,641	1,295	38	4,564	18
Mountrail	1,139 $\frac{3}{4}$	1,039	56 $\frac{1}{2}$	192 $\frac{1}{2}$	15
Nelson	5,729 $\frac{1}{2}$	1,034	6 $\frac{1}{2}$	647	30
Oliver	5,580	534	40	1,921	45
Pembina	9,115 $\frac{3}{4}$	1,903 $\frac{1}{2}$	57 $\frac{1}{2}$	2,073	429
Pierce	2,943 $\frac{1}{2}$	701 $\frac{3}{4}$	1	2,052	—
Ramsey	5,401	1,107	66	1,317	—
Ransom	21,588	1,033	62	5,925	—
Renville	5,176	886 %	3 $\frac{1}{2}$	668	—
Richland	49,137	2,658	4 $\frac{1}{2}$	5,207	96
Rolette	946	909	46	882	141
Sargent	26,718	1,202	23	6,664	45
Sheridan	3,319	518	62	1,626	89
Stark	2,308	777	6	712	4
Steele	9,983	731	%	4,118	371
Stutsman	20,514	2,605	17	6,896	270
Towner	1,839	1,051	28	1,481	15
Trall	14,302	1,325	—	5,705	154
Walsh	11,863	2,491	22	3,637	3,587
Ward	6,138	1,509 $\frac{1}{2}$	94 $\frac{1}{2}$	923 $\frac{1}{2}$	25
Wells	8,445	1,195	40	7,863	12
Williams	2,305 $\frac{3}{4}$	1,021	38 $\frac{1}{2}$	305	15
Total	493,470 %	67,64517/24	3,176 %	122,161	6,698

ACREAGE FOR 1912—Continued.

COUNTY	Clover	Timothy	Alfalfa	Brome Grass	Other Tame Grasses	Total Acreage of Crop Including Tame Grasses
Adams	4	24	299	71	15	120,709
Barnes	187	2,551	333	853	337	531,641
Benson	95	903	187	438	26	369,136
Billings	106	403	188	300	132	520,797
Bottineau	107	1,747	622	844	784	497,190
Bowman	32	50	168	54	56	118,368
Burke	4	237	15½	295	227	135,696
Burleigh	7	374	237	411	.....	189,522
Cass	1,560	11,533	205	342	158	596,554½
Cavaller	168	1,738	92	262	165	446,320
Dickey	8	581	203	334	50	326,199½
Divide	8	138	113	124	.....	261,209
Dunn	17½	84	82½	85	11	122,019½
Eddy	110½	942	187½	720	46	178,124½
Emmons	14	104	159	58	.....	169,483
Foster	14	689	88½	553½	652	241,156½
Grand Forks	800	9,292	382	802	322	537,696
Griggs	43	385	76½	354	260	245,749½
Hettinger	29	168	71½	114	24	165,146½
Kidder .....	.....	112	80	204	.....	184,965
LaMoure	36	1,476	165½	838	30	443,976½
Logan .....	.....	10	16	28	.....	156,163
McHenry	19	1,005	365½	1,004	175	434,662½
McIntosh .....	.....	.....	.....	12	.....	132,643
McKenzie	6¾	100	1,168½	40	142	132,8167/8
McLean	7	191	171	621	72	286,777
Mercer .....	.....	168	141	102	.....	157,854
Morton	14	140	124	16	.....	238,207½
Mountrail	4	96½	113½	106½	46	156,749½
Nelson	191	459½	103½	386	55	346,509
Oliver	3	71	34	73	.....	75,732
Pembina	426	14,733	126½	105	82	351,434½
Pierce	47	279	46½	250	26	305,274
Ramsey	307	1,349	68	250	5	398,131
Ransom	7	3,050	109	183	66	249,800
Renville	½	303	85½	130	55	167,9851/8
Richland	408	5,543	127	154	898	448,142½
Rolette	8	218	129	119	68	216,350
Sargent	11	1,285	72	225	10	225,543
Sheridan	1	54	34	130	27	165,007
Stark .....	.....	220	61	722	41	125,278
Steele	80	1,326	10	234	28	278,897½
Stutsman	35	488	193	592	860	522,391
Towner	90	1,868	78	423	332	416,819
Tarill	134	8,603	33	189	.....	265,274
Walsh	248	8,192	125	542	239	448,500
Ward	15	378	180½	388½	29	238,8811/8
Wells	20	1,121	198	1,516	63	413,764
Williams	10	216	546½	3451/8	159	228,577
Total	5,730	84,952¾	8,355½	16,942½	6,792½	13,878,839½

LIVE STOCK—1912—(Continued)

County.	Value of Animals fattened and killed for home use.	Received for Cattle, Hogs and Sheep sold for market.	Received for Horses sold to market.	Value of all kinds of stock brought to state.
Adams,	\$ 20,384.85	\$ 68,922.58	\$ 31,849.50	\$ 53,815.75
Barnes,	98,301.00	149,359.10	70,678.00	84,672.00
Benson,	63,276.00	45,348.00	79,817.00	87,200.00
Billings,	65,842.50	375,895.00	87,450.00	250,101.00
Bottineau,	48,992.00	78,346.00	89,841.00	1,123,588.00
Bowman,	16,182.00	56,980.60	29,317.00	45,938.00
Burke,	27,894.00	21,119.00	21,787.00	29,189.00
Burleigh,	32,909.00	94,220.00	45,159.00	48,976.00
Cass,	122,849.00	179,429.00	61,651.00	110,163.00
Cavaller,	115,781.00	46,960.00	97,826.00	130,405.00
Dickey,	43,748.00	163,189.40	90,808.00	99,726.50
Divide,	25,815.00	19,769.20	39,681.50	107,057.82
Dunn,	26,369.10	82,582.00	54,398.40	51,780.00
Eddy,	32,032.00	45,967.87	29,672.50	45,002.00
Emmons,	10,065.00	12,693.00	76,038.00	44,580.00
Foster,	40,000.00	51,703.90	37,070.00	63,174.50
Grand Forks,	114,190.00	123,819.37	92,757.75	143,370.00
Griggs,	37,700.00	37,512.00	68,716.00	71,846.00
Hettinger,	31,080.00	44,440.00	38,184.00	67,179.00
Kidder,	32,586.00	87,011.00	42,562.00	74,512.00
LaMoure,	68,751.00	91,138.55	74,070.50	104,860.00
Logan,	39,265.00	102,318.00	40,651.00	116,004.00
McHenry,	75,149.00	68,647.00	28,610.00	46,846.00
McIntosh,	78,945.00	71,421.00	29,438.00	39,119.00
McKenzie,	37,849.00	74,974.50	59,734.00	95,387.50
McLean,	43,592.00	49,903.00	29,729.00	53,940.00
Mercer,	35,480.00	79,460.00	57,063.00	96,315.00
Morton,	72,182.00	142,109.00	42,903.00	86,555.00
Mountrail,	34,328.00	18,198.60	28,017.65	28,508.14
Nelson,	81,936.00	68,166.00	69,141.00	79,448.00
Oliver,	27,784.50	58,197.00	12,160.00	25,786.00
Pembina,	88,547.26	101,172.50	35,717.00	89,527.00
Pierce,	72,136.00	40,962.00	54,395.00	68,617.00
Ramsey,	70,278.00	61,330.00	50,592.00	75,148.00
Ransom,	59,504.00	114,886.00	35,944.00	64,705.00
Renville,	16,589.00	11,136.50	16,083.00	26,094.00
Richland,	111,100.00	219,001.00	58,690.00	67,257.00
Rolette,	54,404.00	49,786.50	35,408.00	52,919.00
Sargent,	11,449.00	153,134.00	40,058.00	40,252.00
Sheridan,	30,014.00	23,707.00	18,380.00	33,499.00
Stark,	30,451.00	45,101.00	16,325.00	31,303.00
Steele,	55,270.00	53,671.00	41,425.00	65,733.00
Stutsman,	66,296.00	117,415.00	80,998.00	106,911.00
Towner,	80,587.00	55,372.00	67,785.00	124,662.00
Trall,	58,754.00	58,039.00	23,045.00	51,944.00
Walsh,	126,257.00	62,656.00	62,596.00	122,264.00
Ward,	37,663.05	36,852.34	32,423.50	66,287.50
Wells,	77,247.00	66,263.00	67,333.00	76,052.00
Williams,	44,387.90	36,364.50	52,616.50	98,961.30
Totals	\$2,692,192.16	\$3,914,647.01	\$2,460,394.80	\$4,767,190.44

COAL MINES—1911.

County.	No. of Mines Operated.	Number Tons Mined.	Average Cost Per ton.	Number Men Employed	Total wages Paid Miners	Average hours Daily Labor.
Adams,	13	14,687	\$.74	32	\$ 11,239.50	8 ½
Barnes, .....	.....	.....	.....	.....	.....	.....
Benson, .....	.....	.....	.....	.....	.....	.....
Billings, .....	.....	.....	.....	.....	.....	.....
Bottineau, .....	.....	.....	.....	.....	.....	.....
Bowman,	1	1,000	.....	1	.....	.....
Burke,	1	5,500	.85	8	3,300.00	9
Burleigh,	6	192,754	1.00	460	4,350.00	9
Cass, .....	.....	.....	.....	.....	.....	.....
Cavaller, .....	.....	.....	.....	.....	.....	.....
Dickey, .....	.....	.....	.....	.....	.....	.....
Divide,	2	17,000	1.00	14	15,000.00	9
Ipsen,	7	2,000	.93	15	1,260.00	8
Eddy, .....	.....	.....	.....	.....	.....	.....
Emmons, .....	.....	.....	.....	.....	.....	.....
Foster, .....	.....	.....	.....	.....	.....	.....
Grand Forks, .....	.....	.....	.....	.....	.....	.....
Griggs, .....	.....	.....	.....	.....	.....	.....
Hettinger,	8	6,375	.90	14	2,475.00	10
Kidder, .....	.....	.....	.....	.....	.....	.....
La Moure, .....	.....	.....	.....	.....	.....	.....
Logan, .....	.....	.....	.....	.....	.....	.....
McHenry, .....	.....	.....	.....	.....	.....	.....
McIntosh, .....	.....	.....	.....	.....	.....	.....
McKenzie, .....	.....	150	1.25	.....	.....	.....
McLean,	5	4,980	.....	29	2,888.00	7
Mercer,	2	1,900	1.25	5	760.00	8
Morton,	32	4,176	1.00	13	1,298.00	.....
Mountrail,	3	2,400	1.25	8	2,250.00	10
Nelson, .....	.....	.....	.....	.....	.....	.....
Olver,	4	6,000	.49	4	750.00	10
Pembina, .....	.....	.....	.....	.....	.....	.....
Pierce, .....	.....	.....	.....	.....	.....	.....
Ramsey, .....	.....	.....	.....	.....	.....	.....
Ransom, .....	.....	.....	.....	.....	.....	.....
Renville,	1	800	.....	2	400.00	8
Richland, .....	.....	.....	.....	.....	.....	.....
Rolette, .....	.....	.....	.....	.....	.....	.....
Sargent, .....	.....	.....	.....	.....	.....	.....
Sheridan, .....	.....	.....	.....	.....	.....	.....
Stark,	1	4,550	2.00	11	2,400.00	8
Steele, .....	.....	.....	.....	.....	.....	.....
Stutsman, .....	.....	.....	.....	.....	.....	.....
Towner, .....	.....	.....	.....	.....	.....	.....
Trall, .....	.....	.....	.....	.....	.....	.....
Walsh, .....	.....	.....	.....	.....	.....	.....
Ward,	7	35,469	1.40	98	3,586.00	7 ½
Wells, .....	.....	.....	.....	.....	.....	.....
Williams,	13	10,137	1.65	37	8,161.75	10 ¼
Total	106	309,878	.....	751	60,118.25	.....

DAIRY PRODUCTS—1911—Continued.

County	Received for Milk and Cream Sold to Cheese Factories Creameries or Stations	Received for Milk and Cream Sold other than specified	Number of Cows Milking 1912.
Adams	\$ 5,104.94	\$ 5,313.61	2,323
Barnes	15,153.58	1,382.00	5,099
Benson	3,345.00		5,160
Billings	2,340.50		6,892
Bottineau	78.00	1,620.00	4,921
Bowman	3,359.49	2,264.00	1,758
Burke	1,528.00	2,910.00	1,907
Burleigh	34,070.00	25,835.00	3,874
Cass	19,390.25	24,574.00	5,231
Cavaller	11,556.00	368.00	4,524
Dickey	34,212.69	8,375.00	4,003
Divide		2,253.00	2,188
Dunn		2,261.00	1,182
Eddy	1,878.86	900.00	1,727
Emmons	361.95	46,974.00	4,131
Foster	884.50	4,353.00	1,594
Grand Forks	18,166.35	29,349.10	5,502
Griggs	350.00	635.00	2,252
Hettinger	7,046.00	1,070.00	2,441
Kidder	48,548.00	11,833.00	3,812
LaMoure	27,829.10	5,602.00	5,028
Logan	78,955.00		4,476
McHenry	11,983.00	3,600.00	5,127
McIntosh	28,951.00	54,235.00	4,764
McKenzie		1,746.48	1,796
McLean	31,678.00	2,906.00	4,310
Mercer	3,530.40	13,912.00	1,923
Morton	74,729.36	27,373.83	7,165
Mountrail	5,589.60	2,605.00	3,213
Nelson	7,425.00	4,733.00	4,412
Oliver	42,774.78	642.41	2,771
Pembina	26,769.00	3,730.00	4,625
Pierce	3,252.00	1,558.00	3,032
Ramsey	5,476.23	1,410.00	3,681
Ransom	18,762.00	17,739.53	3,471
Renville	751.00	565.00	1,258
Richland	30,102.00	3,830.00	6,817
Rolette	1,970.62	3,215.00	2,560
Sargent	56,611.00	4,020.00	4,235
Sheridan	16,990.00	6,203.00	2,903
Stark	5,521.00	7,438.00	1,820
Steele	3,655.00	1,915.00	2,840
Stutsman	52,418.52	7,590.50	6,511
Towner	1,424.00	790.00	2,854
Trall	19,624.00	1,143.00	3,116.0
Walsh	4,863.00	8,507.00	5,615
Ward	6,538.25	10,912.50	3,246
Wells	11,290.00	9,200.00	3,814
Williams	10,290.51	7,883.00	3,551
Total	\$ 806,125.48	\$ 387,454.96	181,759

STATE OF NORTH DAKOTA

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FARM LABOR STATISTICS—1911.

County	No. Male Employees	Average Wages per Month.	No. Female Employees.	Average Wages per Month	Total Wages Paid During Year.
Adams	191	\$ 25.75	32	\$ 16.50	\$ 28,646.00
Barnes	1,309	.....	270	.....	588,521.30
Benson	795	39.00	45	32.00	371,993.00
Billings	842	40.00	140	17.50	198,456.00
Bottineau	419	35.00	377	30.00	104,682.00
Bowman	281	20.60	27	24.52	34,004.00
Burke	369	36.00	48	20.00	121,803.50
Burleigh	297	38.00	21	15.00	54,900.00
Cass	1,692	35.63	251	23.03	856,239.00
Cavaller	1,202	37.00	160	18.00	337,582.00
Dickey	548	37.43	75	19.88	121,187.50
Divide	721	40.00	98	20.00	155,253.20
Dunn	271	25.00	22	18.50	59,806.50
Eddy	430	27.33	51	23.84	147,067.00
Emmons	195	25.00	21	20.00	31,453.00
Foster	544	34.73	52	22.50	174,874.00
Grand Forks	1,665	32.24	415	17.85	583,640.00
Griggs	619	36.28	121	20.47	259,919.00
Hettinger	237	34.40	50	16.80	48,667.00
Kidder	228	22.50	28	16.00	43,303.00
LaMoure	808	43.00	133	20.00	72,040.00
Logan	172	27.95	38	12.65	29,490.00
McHenry	720	39.00	121	21.00	158,952.00
McIntosh	2,139	46.95	52	18.96	27,472.00
McKenzie	378	26.78	39	15.97	610.53
McLean	705	28.00	67	16.00	75,955.00
Mercer	159	20.90	67	15.00	4,328.10
Morton	3,653	.....	72	.....	67,634.00
Mountrail	400	35.00	56	15.00	79,212.00
Nelson	1,268	37.33	267	20.38	399,322.00
Oliver	91	25.00	12	15.00	18,598.00
Pembina	1,109	35.00	197	17.00	298,847.00
Pierce	639	29.74	143	16.80	218,455.00
Ramsey	1,050	38.60	156	21.20	398,218.00
Bansom	644	.....	174	.....	.....
Renville	339	24.37	36	17.25	67,506.00
Richland	781	26.00	147	17.00	377,167.00
Rolette	479	27.33	65	12.67	152,921.00
Sargent	544	35.00	182	20.00	216,128.00
Sheridan	431	38.00	40	16.00	37,932.00
Stark	187	25.55	27	18.30	44,118.00
Steele	927	22.20	179	20.61	409,490.00
Stutsman	826	30.00	119	15.00	220,510.00
Towner	1,031	23.73	204	14.83	350,973.00
Trilli	1,198	34.40	195	18.75	416,453.00
Walsh	1,343	28.16	221	14.92	439,239.00
Ward	507	33.80	76	23.35	79,760.00
Wells	676	25.38	106	14.83	213,067.00
Williams	645	34.67	100	19.24	104,935.00
Total	36,714		5,665		\$ 9,301,399.63

CREAMERIES, CHEESE FACTORIES AND STATIONS—1911.

County	Number of Creameries.	Lbs. of Butter Manufactured.	No. of Cheese Factories.	Lbs. of Cheese Manufactured	No. Cream and Milk Stations
Adams,	1	60,000	.....	.....	.....
Barnes,	1	75,186	.....	.....	.....
Benson, .....	.....	.....	.....	.....	.....
Billings, .....	.....	.....	.....	.....	.....
Bottineau, .....	.....	.....	.....	.....	.....
Bowman, .....	.....	.....	.....	1,400	.....
Burke,	3	.....	.....	.....	.....
Burleigh,	4	400,000	.....	.....	.....
Cass, .....	.....	485,816	.....	56	.....
Cavaller,	3	300,000	.....	.....	3
Dickey,	2	50,000	.....	.....	.....
Divide, .....	.....	.....	.....	.....	.....
Dunn, .....	.....	.....	.....	.....	.....
Eddy, .....	.....	.....	.....	.....	8
Emmons, .....	.....	.....	.....	.....	1
Foster, .....	.....	.....	.....	.....	.....
Grand Forks,	1	.....	.....	.....	3
Griggs, .....	.....	.....	.....	.....	.....
Hettinger,	1	.....	.....	.....	.....
Kidder,	2	237,358	.....	.....	.....
LaMoure,	2	178,425	.....	.....	.....
Logan,	1	128,000	.....	.....	6
McHenry,	1	3,000	.....	.....	.....
McIntosh,	1	170,000	.....	.....	14
McKenzie, .....	.....	.....	.....	.....	.....
McLean,	1	130,912	.....	.....	.....
Mercer,	1	11,768	.....	.....	.....
Morton,	9	611,409	.....	.....	.....
Mountrail,	2	25,379	.....	.....	2
Nelson,	6	.....	.....	.....	.....
Oliver,	6	156,744	.....	.....	1
Pembina,	8	.....	.....	.....	.....
Pierce,	1	.....	.....	.....	.....
Ramsey, .....	.....	.....	.....	.....	.....
Ransom,	5	.....	.....	.....	9
Renville,	1	.....	.....	.....	.....
Richland,	1	40,000	.....	.....	.....
Rolette,	2	.....	.....	.....	.....
Sargent, .....	.....	.....	.....	.....	.....
Sheridan,	1	200,000	.....	.....	5
Stark,	3	.....	.....	.....	6
Steele, .....	.....	.....	.....	.....	.....
Stutsman, .....	.....	.....	.....	.....	.....
Towner, .....	.....	.....	.....	.....	.....
Trall,	3	.....	.....	.....	.....
Walsh,	2	20,700	.....	.....	.....
Ward,	1	30,000	.....	.....	.....
Wells, .....	.....	.....	.....	.....	.....
Williams,	3	81,000	.....	.....	3
Total	74	3,325,697	.....	1,456	64

MANUFACTURING AND OTHER INDUSTRIES—1911

County,	Number.	Total Capital Invested.	Average No. Hours Daily.	Total Value Goods M'd.	Total Value Material used.	Weeks in Operation.
Adams,	1	.....	.....	.....	.....	....
Barnes,	9	.....	.....	.....	.....	....
Benson,	3	\$ 10,300.00	10	.....	.....	52
Billings,	8	38,700.00	7 1/2	\$ 25,000.00	\$ 6,000.00	52
Bottineau,	10	67,902.00	10	250,750.00	188,400.00	435
Bowman,	4	550.00	8	8,000.00	.....	78
Burke,	1	2,000.00	10	4,700.00	1,500.00	52
Burleigh,	1	.....	.....	.....	.....	....
Cass,	1	.....	.....	.....	.....	....
Cavalier,	1	2,000.00	10	4,700.00	1,500.00	52
Dickey,	1	.....	.....	.....	.....	....
Divide,	1	.....	.....	.....	.....	....
Dunn,	1	.....	.....	.....	.....	....
Eddy,	1	.....	.....	.....	.....	....
Emmons,	3	12,300.00	9 2/3	19,000.00	2,575.00	52
Foster,	22	506,825.00	8 2/3	1,435,871.00	1,065,479.00	905
Grand Forks,	1	1,000.00	.....	.....	.....	....
Griggs,	1	2,500.00	.....	4,000.00	1,500.00	52
Hettinger,	1	.....	.....	.....	.....	....
Kidder,	1	.....	.....	.....	.....	....
LaMoure,	1	4,000.00	.....	1,500.00	500.00	39
Logan,	1	.....	.....	.....	.....	....
McHenry,	1	.....	.....	.....	.....	....
McIntosh,	1	.....	.....	.....	.....	....
McKenzie,	1	4,000.00	.....	1,500.00	500.00	39
McLean,	1	.....	.....	.....	.....	....
Mercer,	1	.....	.....	.....	.....	....
Morton,	1	.....	.....	.....	.....	....
Mountrail,	4	2,000.00	10	5,850.00	3,275.00	85
Nelson,	1	4,000.00	.....	.....	.....	....
Oliver,	1	.....	.....	.....	.....	....
Pembina,	1	.....	.....	.....	.....	....
Pierce,	1	.....	.....	.....	.....	....
Ramsey,	1	.....	.....	.....	.....	....
Ransom,	6	64,000.00	.....	.....	.....	....
Renville,	1	500.00	.....	800.00	500.00	52
Richland,	1	.....	.....	.....	.....	....
Rolette,	1	.....	.....	.....	.....	....
Sargent,	7	13,700.00	10	11,000.00	6,450.00	42
Sheridan,	9	.....	11	.....	.....	....
Stark,	9	.....	.....	.....	.....	....
Steele,	9	.....	.....	.....	.....	....
Stutsman,	2	12,000.00	.....	.....	.....	....
Towner,	4	.....	10	344,400.00	3,150.00	....
Trall,	1	.....	.....	.....	.....	....
Walsh,	1	.....	.....	.....	.....	....
Ward,	1	.....	.....	.....	130.00	....
Wells,	1	4,250.00	8	6,400.00	.....	52
Williams,	1	.....	.....	.....	.....	....
Total,	107	\$ 746,527.00	.....	\$ 2,117,071.00	\$ 1,277,459.00	....

MANUFACTURING AND OTHER INDUSTRIES—1911—Continued

County.	Total Wages Paid	No. Male Employees.	Average Daily Wages	No. Female Employees.	Average Daily Wages.
Adams, .....	.....	.....	.....	.....	.....
Barnes, .....	.....	.....	.....	.....	.....
Benson, .....	.....	.....	.....	.....	.....
Billings,	\$ 6,875.50	8	\$ 3.25	.....	.....
Bottineau, .....	.....	.....	.....	.....	.....
Bowman,	1,700.00	5	2.50	8	\$ 2.90
Burke, .....	.....	.....	.....	.....	.....
Burleigh,	33,860.00	35	3.25	9	2.35
Cass, .....	.....	4	.....	.....	.....
Cavaller, .....	.....	.....	.....	.....	.....
Dickey,	40.00	3	1.75	.....	.....
Divide, .....	.....	.....	.....	.....	.....
Dunn, .....	.....	.....	.....	.....	.....
Eddy, .....	.....	.....	.....	.....	.....
Emmons, .....	.....	.....	.....	.....	.....
Foster,	1,575.00	5	2.66	.....	.....
Grand Forks,	180,267.00	332	2.60	71	1.47
Griggs, .....	.....	.....	.....	.....	.....
Hettinger, .....	.....	.....	.....	.....	.....
Kidder,	1,200.00	2	2.75	.....	.....
LaMoure, .....	.....	.....	.....	.....	.....
Logan, .....	.....	.....	.....	.....	.....
McHenry, .....	.....	.....	.....	.....	.....
McIntosh, .....	.....	.....	.....	.....	.....
McKenzie, .....	.....	.....	.....	.....	.....
McLean,	400.00	.....	.....	.....	.....
Mercer, .....	.....	.....	.....	.....	.....
Morton, .....	.....	.....	.....	.....	.....
Mountrail, .....	.....	.....	.....	.....	.....
Nelson,	1,300.00	6	2.37	.....	.....
Oliver, .....	.....	.....	.....	.....	.....
Pembina, .....	.....	.....	.....	.....	.....
Pierce, .....	.....	.....	.....	.....	.....
Ramsey, .....	.....	.....	.....	.....	.....
Ransom, .....	.....	.....	.....	.....	.....
Renville, .....	.....	.....	.....	.....	.....
Richland, .....	.....	.....	.....	.....	.....
Rolette, .....	.....	.....	.....	.....	.....
Sargent, .....	.....	.....	.....	.....	.....
Sheridan,	1,250.00	5	3.50	.....	.....
Stark, .....	.....	.....	.....	.....	.....
Steele, .....	.....	.....	.....	.....	.....
Stutsman, .....	.....	.....	.....	.....	.....
Towner, .....	.....	.....	.....	.....	.....
Trall, .....	.....	.....	.....	.....	.....
Walsh, .....	.....	39	3.10	.....	.....
Ward, .....	.....	.....	.....	.....	.....
Wells, .....	.....	.....	.....	.....	.....
Williams,	4,600.00	5	3.00	.....	.....
Total,	\$ 233,067.50	449	.....	83	.....

LABOR ORGANIZATIONS—1912.

County.	Total Number	Total Membership in State.
Adams,
Barnes,
Benson,
Billings,
Bottineau,
Bowman,
Burke,
Burleigh,	1	16
Cass,
Cavalier,
Dickey,
Divide,
Dunn,
Eddy,
Emmons,
Foster,
Grand Forks,	16	444
Griggs,
Hettinger,
Kidder,
LaMoure,
Logan,
McHenry,
McIntosh,
McKenzie,
McLean,
Mercer,
Morton,
Mountrail,
Nelson,
Oliver,
Pembina,
Pierce,
Ramsey,
Ransom,	5	392
Renville,
Richland,
Rolette,
Sargent,
Sheridan,
Stark,
Steele,
Stutsman,	1	.....
Towner,
Trall,
Walsh,
Ward,
Wells,
Williams,
Total,	23	852

ELEVATORS AND WAREHOUSES—1912.

County.	Total No. Farmers' Elevators.	Total Capacity, Bushels.	Total No. Lime Elevators.	Total Capacity, Bushels.	Total No. Lumber Yards.
Adams,	2	50,000	12	330,000	14
Barnes,	19	650,000	53	1,214,000	24
Benson,	11	445,000	51	1,418,000	10
Billings,	2	60,000	13	550,000	10
Bottineau,	15	484,000	80	2,161,000	20
Bowman,	3	54,000	12	300,000	...
Burke,	10	190,000	16	321,000	10
Burleigh,	1	30,000	11	370,000	11
Cass,	22	419,500	78	666,000	20
Cavalier,	9	275,000	60	1,332,000	20
Dickey,	1	30,000	14	257,000	4
Divide,	3	65,000	13	313,000	9
Dunn, .....	...	...	...	...	5
Eddy,	4	144,000	10	263,000	5
Emmons,	1	20,000	18	360,000	12
Foster,	3	83,000	18	490,000	12
Grand Forks,	0	235,000	66	2,326,000	21
Griggs,	4	...	24	...	10
Hettinger,	1	...	11	27,500	18
Kidder,	1	25,000	6	207,000	12
LaMoure,	11	380,000	44	1,020,000	23
Logan,	3	95,000	15	368,000	6
McHenry,	28	696,000	46	1,012,000	20
McIntosh,	9	200,000	5	90,000	11
McKenzie, .....	...	...	...	...	4
McLean,	5	160,000	41	846,000	18
Mercer, .....	...	...	4	250,000	6
Morton,	5	...	38	...	...
Mountrail,	2	60,000	12	250,000	10
Nelson,	4	290,000	19	790,000	14
Oliver, .....	...	...	2	70,000	3
Pembina,	8	128,000	58	1,820,000	13
Pierce,	6	235,000	16	591,000	7
Ramsey,	3	108,000	51	1,702,000	19
Ransom,	9	...	18	...	12
Renville,	4	120,000	21	559,000	9
Richland,	4	267,000	58	...	...
Rolette,	5	160,000	30	763,000	10
Sargent,	7	150,000	35	780,000	16
Sheridan,	9	227,000	12	392,000	18
Stark,	9	35,000	13	20,000	...
Steele,	8	365,000	17	595,000	9
Stutsman,	7	...	48	...	20
Towner,	4	170,000	48	1,556,000	13
Trall,	10	410,000	46	1,648,000	14
Walsh,	18	450,000	65	1,665,000	19
Ward,	3	80,000	15	268,000	5
Wells,	7	230,000	38	230,000	14
Williams,	2	6,000	23	584,000	16
Total,	310	6,661,500	1,404	31,270,500	577

FLOURING MILLS—1912.

County.	Total No.	Barrels. Daily Capacity.	Total No. Bbls. Milled, 1911.
Adams,	1	75	7,000
Barnes,	1	1,800	382,243
Benson,	1	75	1,000
Billings,	1	.....	.....
Bottineau, .....	.....	.....	.....
Bowman,	1	100	.....
Burke,	1	75	2,500
Burleigh,	1	200	11,828
Cass, .....	.....	.....	.....
Cavaller,	3	.....	.....
Dickey,	2	500	69,505
Divide, .....	.....	.....	.....
Dunn,	1	50	.....
Eddy,	1	140	19,000
Emmons,	1	50	.....
Foster, .....	.....	.....	.....
Grand Forks,	3	1,075	173,466
Griggs,	1	75	.....
Hettinger, .....	.....	.....	.....
Kidder, .....	.....	.....	.....
LaMoure,	2	180	16,500
Logan, .....	.....	.....	.....
McHenry, .....	.....	.....	.....
McIntosh,	2	180	3,480
McKenzie,	1	50	300
McLean,	2	250	.....
Mercer,	1	75	.....
Morton,	3	650	.....
Mountrail, .....	.....	.....	.....
Nelson, .....	.....	.....	.....
Oliver, .....	.....	.....	.....
Pembina,	2	400	.....
Pierce,	1	125	.....
Ramsey,	1	100	8,150
Ransom,	2	275	26,000
Renville, .....	.....	.....	.....
Richland,	4	400	.....
Rolette,	1	100	.....
Sargent,	3	250	.....
Sheridan, .....	.....	.....	.....
Stark,	3	800	.....
Steele,	2	200	5,000
Stutsman,	3	975	22,500
Towner, .....	.....	.....	.....
Trall,	1	75	.....
Wash,	3	1,575	.....
Ward,	2	150	.....
Wells,	1	150	10,500
Williams,	1	150	30,000
Total,	60	11,305	788,972

STATE SUMMARY OF ELEVATOR REPORTS

July, 1911, to June, 1912.

Kind of Grain	Bought (Bushels)	Shipped (Bushels)	Retailed (Bushels)	On Hand (Bushels)
Spring Wheat	30,296,832	28,351,013	637,161	270,137
Durum Wheat	2,887,891	2,471,113	86,978	24,518
Winter Wheat	4,728	2,750	1,902	.....
Flax	6,408,858	5,867,256	106,262	51,776
Oats	4,965,143	4,074,057	828,481	164,228
Barley	5,051,049	5,022,672	91,243	32,478
Hull-less Barley	20	.....	20	.....
Spring Rye	63,654	58,424	4,136	1,818
Winter Rye	174,394	156,174	8,360	4,143
Speltz	4,337	2,124	1,606	.....
Corn	279,153	49,759	248,768	2,498
Potatoes	246,477	246,335	30,140	.....
Millet Seed	25,362	24,615	1,523	6
Hungarian Seed	270	164	105	1
Clover Seed	4	.....	3	1
Timothy Seed	4,290	3,537	61	667
Brome Grass	228	.....	28	.....
Hay (Tons)	2,529	2,529	.....	.....

ELEVATORS AND WAREHOUSES—1912

Spring Wheat

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	14,261	8,226	6,381	16
Barnes	1,832,239	1,803,588	4,116	15,752
Benson	1,867,615	1,883,311	3,405	4,467
Billings	633,564	622,711	6,923	4,101
Bottineau	1,829,802	1,278,957	38,221	17,232
Bowman	70,417	39,885	16,934	119
Burke	565,686	555,748	6,643	2,683
Burleigh	219,972	232,152	2,716	148
Cass	3,068,485	2,896,131	7,500	18,990
Cavalier	2,320,971	2,134,974	3,175	14,194
Dickey	320,786	302,869	9,645	1,377
Divide	728,127	727,915	1,880	701
Dunn				
Eddy	575,383	557,200	11,703	7,170
Emmons	193,332	167,189	10,150	959
Foster	751,553	746,620	694	3,480
Grand Forks	2,996,886	3,021,756	13,891	18,553
Griggs	1,076,084	996,042	711	6,858
Hettinger	61,939	50,425	12,259	900
Kidder	143,693	139,833	1,001	282
LaMoure	695,408	623,387	23,212	4,830
Logan	171,630	170,664	1,073	354
McHenry	692,091	676,062	11,827	2,929
McIntosh	92,497	83,586	1,653	
McKenzie				
McLean	517,910	501,181	14,175	4,019
Mercer				
Morton	676,491	656,761	82,836	5,084
Mountrail	148,937	138,093	6,228	107
Nelson	1,045,097	1,124,659	5,515	4,835
Oliver	5,046	5,098		
Pembina	1,588,745	1,566,359	3,998	11,160
Pierce	492,794	485,044	772	4,199
Ramsey	1,344,967	1,380,597	1,375	5,886
Ransom	463,312	461,847	593	2,800
Renville	712,593	703,284	4,133	6,403
Richland	1,131,826	945,389	3,580	3,756
Rolette	492,094	494,558	393	708
Sargent	222,337	212,517	55,323	5,394
Sheridan	202,036	158,993	1,984	826
Stark	309,557	261,153	97,778	3,239
Steele	1,193,292	1,056,588	499	2,558
Stutsman	1,060,732	945,749	96,955	4,240
Towner	1,001,248	909,001	10,589	2,905
Trails	2,163,083	2,157,527	1,715	24,958
Walsh	2,894,072	2,609,836	3,483	16,931
Ward	701,741	648,016	9,734	6,137
Wells	1,494,219	1,404,623	83,164	9,383
Williams	531,198	305,479	1,508	15,174
Total	30,296,832	28,351,013	687,161	270,137

MANUFACTURING AND OTHER INDUSTRIES—1911—Continued

County.	Total Wages Paid	No. Male Employees.	Average Daily Wages	No. Female Employees.	Average Daily Wages.
Adams,					
Barnes,					
Benson,					
Billings,	\$ 6,875.50	8	\$ 3.25		
Bottineau,					
Bowman,	1,700.00	5	2.50	8	\$ 2.00
Burke,					
Burlleigh,	33,860.00	35	3.25	9	2.35
Cass,		4			
Cavaller,					
Dickey,	40.00	3	1.75		
Divide,					
Dunn,					
Eddy,					
Emmons,					
Foster,	1,575.00	5	2.66		
Grand Forks	180,267.00	332	2.60	71	1.47
Griggs,					
Hettinger,					
Kidder,	1,200.00	2	2.75		
LaMoure,					
Logan,					
McHenry,					
McIntosh,					
McKenzie,					
McLean,	400.00				
Mercer,					
Morton,					
Mountrail,					
Nelson,	1,300.00	6	2.37		
Oliver,					
Pembina,					
Pierce,					
Ramsey,					
Ransom,					
Renville,					
Richland,					
Rolette,					
Sargent,					
Sheridan,	1,250.00	5	3.50		
Stark,					
Steele,					
Stutsman,					
Towner,					
Trail,					
Walsh,		39	3.10		
Ward,					
Wells,					
Williams,	4,600.00	5	3.00		
Total,	\$ 233,067.50	449		83	

LABOR ORGANIZATIONS—1912.

County.	Total Number	Total Membership in State.
Adams,
Barnes,
Benson,
Billings,
Bottineau,
Bowman,
Burke,
Burleigh,	1	16
Cass,
Cavaller,
Dickey,
Divide,
Dunn,
Eddy,
Emmons,
Foster,
Grand Forks,	16	444
Griggs,
Hettinger,
Kidder,
LaMoure,
Logan,
McHenry,
McIntosh,
McKenzie,
McLean,
Mercer,
Morton,
Mountrail,
Nelson,
Oliver,
Pembina,
Pierce,
Ramsey,
Ransom,	5	392
Renville,
Richland,
Rolette,
Sargent,
Sheridan,
Stark,
Steele,
Stutsman,	1	.....
Towner,
Trall,
Walsh,
Ward,
Wells,
Williams,
Total,	23	852

ELEVATORS AND WAREHOUSES—1912.

County.	Total No. Farmers' Elevators.	Total Capacity, Bushels.	Total No. Line Elevators.	Total Capacity, Bushels.	Total No. Lumber Yards.
Adams,	2	50,000	12	330,000	14
Barnes,	19	650,000	53	1,214,000	24
Benson,	11	445,000	51	1,418,000	10
Billings,	2	60,000	13	550,000	10
Bottineau,	15	484,000	80	2,161,000	20
Bowman,	3	54,000	12	300,000	10
Burke,	10	190,000	16	321,000	10
Burleigh,	1	30,000	11	370,000	11
Cass,	22	419,500	78	668,000	20
Cavaller,	9	275,000	60	1,832,000	20
Dickey,	1	30,000	14	257,000	4
Divide,	3	65,000	13	313,000	9
Dunn, .....	.....	.....	.....	.....	3
Eddy,	4	144,000	10	263,000	5
Emmons,	1	20,000	18	360,000	12
Foster,	3	83,000	18	490,000	12
Grand Forks,	0	235,000	60	2,326,000	21
Griggs,	4	.....	24	.....	10
Hettinger, .....	.....	.....	11	27,500	18
Kidder,	1	25,000	6	207,000	12
LaMoure,	11	380,000	44	1,020,000	23
Logan,	3	95,000	15	368,000	6
McHenry,	28	696,000	46	1,012,000	20
McIntosh,	9	200,000	5	90,000	11
McKenzie, .....	.....	.....	.....	.....	4
McLean,	5	160,000	41	846,000	18
Mercer, .....	.....	.....	4	250,000	6
Morton,	5	.....	38	.....	.....
Mountrail,	2	60,000	12	250,000	16
Nelson,	4	290,000	19	790,000	14
Oliver, .....	.....	.....	2	70,000	3
Pembina,	8	128,000	58	1,820,000	17
Pierce,	6	235,000	16	591,000	7
Ramsey,	3	108,000	51	1,702,000	19
Ransom,	9	.....	18	.....	12
Renville,	4	120,000	21	550,000	9
Richland,	4	267,000	58	.....	.....
Rolette,	5	160,000	30	763,000	10
Sargent,	7	150,000	35	780,000	16
Sheridan,	9	227,000	12	392,000	18
Stark,	9	35,000	13	20,000	.....
Steele,	8	365,000	17	595,000	9
Stutsman,	7	.....	48	.....	20
Towner,	4	170,000	48	1,556,000	13
Traill,	10	410,000	46	1,648,000	14
Walsh,	18	450,000	65	1,665,000	19
Ward,	3	80,000	15	268,000	5
Wells,	7	230,000	38	230,000	14
Williams,	2	6,000	23	584,000	16
Total,	310	6,661,500	1,404	31,270,500	577

FLOURING MILLS—1912.

County.	Total No.	Barrels. Daily Capacity.	Total No. Bbls. Milled, 1911.
Adams,	1	75	7,000
Barnes,	1	1,800	382,243
Benson,	1	75	1,000
Billings,	1	.....	.....
Bottineau, .....	.....	.....	.....
Bowman,	1	100	.....
Burke,	1	75	2,500
Burleigh,	1	200	11,828
Cass, .....	.....	.....	.....
Cavaller,	3	.....	.....
Dickey,	2	500	69,505
Divide, .....	.....	.....	.....
Dunn,	1	50	.....
Eddy,	1	140	19,000
Emmons,	1	50	.....
Foster, .....	.....	.....	.....
Grand Forks,	3	1,075	173,466
Griggs,	1	75	.....
Hettinger, .....	.....	.....	.....
Kidder, .....	.....	.....	.....
LaMoure,	2	180	16,500
Logan, .....	.....	.....	.....
McHenry, .....	.....	.....	.....
McIntosh,	2	180	3,480
McKenzie,	1	50	300
McLean,	2	250	.....
Mercer,	1	75	.....
Morton,	3	650	.....
Mountrail, .....	.....	.....	.....
Nelson, .....	.....	.....	.....
Oliver, .....	.....	.....	.....
Pembina,	2	400	.....
Pierce,	1	125	.....
Ramsey,	1	100	8,150
Ransom,	2	275	26,000
Renville, .....	.....	.....	.....
Richland,	4	400	.....
Rolette,	1	100	.....
Sargent,	3	250	.....
Sheridan, .....	.....	.....	.....
Stark,	3	800	.....
Steele,	2	200	5,000
Stutsman,	3	975	22,500
Towner, .....	.....	.....	.....
Trall,	1	75	.....
Walsh,	3	1,575	.....
Ward,	2	150	.....
Wells,	1	150	10,500
Williams,	1	150	30,000
Total,	60	11,305	788,972

STATE SUMMARY OF ELEVATOR REPORTS

July, 1911, to June, 1912.

Kind of Grain	Bought (Bushels)	Shipped (Bushels)	Retailed (Bushels)	On Hand (Bushels)
Spring Wheat	30,296,832	28,351,013	637,161	270,137
Durum Wheat	2,887,891	2,471,113	86,978	24,518
Winter Wheat	4,728	2,750	1,902	.....
Flax	6,408,858	5,867,256	106,262	51,776
Oats	4,965,143	4,074,057	828,481	1,542,228
Barley	5,051,049	5,022,672	91,243	32,478
Hull-less Barley	20	.....	20	.....
Spring Rye	63,654	58,424	4,136	1,818
Winter Rye	174,394	156,174	8,360	4,143
Speltz	4,337	2,124	1,606	.....
Corn	279,153	49,759	248,768	2,498
Potatoes	246,477	246,335	30,140	.....
Millet Seed	25,362	24,615	1,523	.....
Hungarian Seed	270	164	105	1
Clover Seed	4	.....	3	1
Timothy Seed	4,290	3,537	61	667
Brome Grass	228	.....	28	.....
Hay (Tons)	2,529	2,529	.....	.....

ELEVATORS AND WAREHOUSES—1912

Spring Wheat

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	14,261	8,226	6,381	16
Barnes	1,832,239	1,803,589	4,116	15,752
Benson	1,867,615	1,883,311	8,405	4,467
Billings	638,564	622,711	6,923	4,101
Bottineau	1,329,802	1,278,957	38,221	17,222
Bowman	70,417	39,885	16,934	119
Burke	565,686	555,748	6,643	2,683
Burleigh	219,972	232,152	2,716	148
Cass	3,068,485	2,896,131	7,500	18,990
Cavalier	2,320,971	2,134,974	3,175	14,194
Dickey	320,786	302,869	9,645	1,977
Divide	728,127	727,915	1,880	701
Dunn				
Eddy	575,883	557,200	11,703	7,170
Emmons	193,382	167,189	10,150	959
Foster	751,553	746,620	694	3,480
Grand Forks	2,996,886	3,021,756	13,891	18,553
Griggs	1,076,084	996,042	711	6,858
Hettinger	61,939	50,425	12,259	900
Kidder	149,698	139,883	1,001	282
LaMoure	695,408	623,387	23,212	4,830
Logan	171,680	170,684	1,073	354
McHenry	692,091	676,062	11,827	2,929
McIntosh	92,497	83,586	1,658	
McKenzie				
McLean	517,910	501,181	14,175	4,019
Mercer				
Morton	676,491	656,761	82,886	5,084
Mountrail	148,937	138,098	6,228	107
Nelson	1,045,097	1,124,659	5,515	4,835
Oliver	5,046	5,098		
Pembina	1,588,745	1,566,359	3,998	11,160
Pierce	492,794	485,044	772	4,199
Ramsey	1,344,967	1,380,597	1,375	5,886
Ransom	463,312	461,847	593	2,800
Renville	712,593	708,284	4,133	6,403
Richland	1,131,826	945,389	3,580	8,756
Rolette	492,094	494,558	393	708
Sargent	222,337	212,517	55,828	5,394
Sheridan	202,086	158,998	1,964	826
Stark	309,557	261,153	97,778	8,299
Steele	1,193,292	1,056,538	499	2,558
Stutsman	1,060,732	945,749	96,955	4,240
Towner	1,001,248	909,001	10,580	2,905
Traill	2,163,083	2,157,527	1,715	24,958
Walsh	2,894,072	2,609,836	3,488	16,931
Ward	701,741	648,016	9,784	6,187
Wells	1,494,219	1,404,628	83,164	9,883
Williams	531,198	305,479	1,508	15,174
Total	30,296,832	28,351,013	687,161	270,137

DURUM—1912.

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	287		214	2
Barnes	304,508	292,586	279	4,561
Benson	16,829	14,962	1,782	3
Billings	657	687	25	
Bottineau	319	180	55	
Bowman	2,488	1,243	783	
Burke				
Burleigh	26,892	25,898	900	
Cass	262,791	281,989	4,065	1,175
Cavalier	277,350	250,120	21,606	1,117
Dickey				
Divide	21,622	21,052	159	6,837
Dunn				
Eddy				
Emmons	19,858	18,794	280	
Foster	169,697	145,805	1,619	1,928
Grand Forks	8,028	6,810		34
Griggs	48,472	43,036	1,076	241
Hettinger	68,615	595	8,077	2,633
Kidder	323,898	314,052	12,538	1,707
LaMoure				
Logan	22,750	22,440	106	
McHenry	1,289	524	228	
McIntosh	1,155	968	150	
McKenzie				
McLean	3,072	2,865	34	210
Mercer				
Morton	2,063	1,081	611	36
Mountrail	180	187		
Nelson	21,227	20,869	508	326
Oliver	92		91	
Pembina				
Pierce	1,672	1,748		
Ramsey				
Ransom	389,444	378,693	5,217	550
Renville	1,919	1,943		
Richland	27,169	24,569	825	353
Rolette	10	17		
Sargent	265,794	231,275	13,890	3,212
Sheridan	3,866	2,864	568	
Stark	720	692		
Steele	80,127	61,190	1,026	583
Stutsman	110,435	102,822	6,950	1,416
Towner	7,197	7,134		50
Traill	78,759	76,586	1,024	564
Walsh	1,538	1,317	214	
Ward	7,142	6,824	459	42
Wells	119,952	108,480	2,610	1,561
Williams	67			
Total	2,887,891	2,471,113	86,978	24,518

WINTER WHEAT—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bowman	93			
Burke				
Burlingame				
Cass	1,879		1,879	
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster	25		25	
Grand Forks	1,298	1,298		
Griggs				
Hettinger				
Kidder				
LaMoure	1,433	1,432		
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill				
Walsh				
Ward				
Wells				
Williams				
Total	4,728	2,750	1,904	

FLAX—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	5,640	6,089	200	514
Barnes	191,350	185,665	3,706	2,317
Benson	229,288	228,911	2,878	683
Billings	273,586	266,973	3,581	2,460
Bottineau	267,548	254,563	4,400	2,652
Bowman	86,688	81,491	3,766	2,904
Burke	53,284	52,646	8,543	343
Burleigh	75,688	74,441	1,964	137
Cass	48,888	63,070	324	1,841
Cavalier	175,998	175,521	298	676
Dickey	62,292	59,455	3,926	284
Divide	105,525	105,396	159	141
Dunn				
Eddy	97,808	95,858	810	439
Emmons	41,722	40,019	470	
Foster	136,114	134,464	1,083	1,001
Grand Forks	126,468	116,835		1,226
Griggs	116,018	101,952	1,118	2,368
Hettinger	78,991	79,909	1,752	482
Kidder	66,368	65,109	980	206
LaMoure	217,047	208,713	4,557	1,966
Logan	89,528	88,721	505	
McHenry	150,838	150,714	1,845	121
McIntosh	53,051	47,564	797	
McKenzie				
McLean	306,264	301,746	3,174	2,305
Mercer				
Morton	263,520	253,485	9,213	1,798
Mountrail	51,752	51,669	645	5
Nelson	163,993	162,467	739	4,437
Oliver	954	942		
Pembina	98,746	96,232	350	856
Pierce	46,169	44,431	1,018	1,561
Ramsey	233,314	239,253	874	1,266
Ransom	54,278	53,345	888	407
Renville	253,168	248,621	5,407	1,096
Richland	68,126	95,639	676	310
Rolette	90,525	91,848	7,211	293
Sargent	177,086	176,429	1,189	1,095
Sheridan	90,078	49,347	1,132	10
Stark	364,114	318,848	3,447	4,780
Steele	81,082	77,701	472	439
Stutsman	304,678	296,137	7,721	1,336
Towner	131,241	106,558	1,698	989
Traill	50,737	48,946	1,012	512
Walsh	127,295	120,123	329	1,823
Ward	884,621	97,756	5,766	3,121
Wells	192,425	188,917	5,460	405
Williams	125,919	126,888	654	
Total	6,408,858	5,867,256	106,262	51,776

OATS—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	19,482		18,807	731
Barnes	160,702	125,727	31,971	4,875
Benson	111,588	95,831	21,549	1,177
Billings	18,148	5,402	11,686	1,636
Bottineau	117,175	85,775	35,730	1,889
Bowman	41,566	12,167	40,868	3,571
Burke	31,955	12,553	6,191	519
Burleigh	10,103	5,745	10,122	
Cass	323,467	280,136	38,373	4,380
Cavalier	879,329	854,765	5,173	15,267
Dickey	22,827	10,004	12,884	192
Divide	10,899	8,388	2,462	75
Dunn				
Eddy	99,341	85,620	11,753	1,006
Emmons	5,640		55,888	
Foster	286,575	264,955	28,057	2,678
Grand Forks	371,543	356,059	8,585	7,209
Griggs	111,056	82,849	11,493	6,195
Hettinger	10,898		12,235	1,776
Kidder	642	547	95	
LaMoure	28,575	5,454	21,892	1,423
Logan				
McHenry	69,115	34,587	33,326	3,980
McIntosh				
McKenzie				
McLean	33,683	13,442	16,062	7,606
Mercer				
Morton	51,899	1,677	55,418	11,167
Mountrail	14,872	9,296	4,832	541
Nelson	102,029	86,997	11,469	2,074
Oliver				
Pembina	289,297	258,548	17,982	1,864
Pierce	33,472	21,673	13,145	516
Ramsey	96,848	85,584	13,838	1,015
Ransom	82,681	76,754	6,439	15
Renville	39,882	19,017	20,411	811
Richland	180,149	148,119	28,114	2,330
Rolette	40,511	38,081	4,238	101
Sargent	65,672	38,126	22,676	837
Sheridan	10,742	2,920	7,823	
Stark	44,989	90	44,549	2,471
Steele	132,802	97,743	8,259	2,364
Stutsman	204,503	135,045	65,433	3,897
Towner	51,495	36,400	9,392	601
Traill	242,544	229,187	11,504	3,251
Walsh	323,763	304,592	4,234	7,681
Ward	74,252	26,500	38,341	9,043
Wells	97,994	99,520	17,524	16,445
Williams	20,487	18,182	118	1,040
Total	4,965,148	4,074,057	828,481	134,228

BARLEY—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	308,540	304,814	1,315	5,069
Benson	164,564	161,842	4,121	715
Billings	4,482	3,489	1,175	
Bottineau	88,429	84,467	3,108	671
Bowman	508	385	515	
Burke	1,935	1,536	427	
Burleigh	5,003	2,683	1,311	
Cass	301,336	286,441	7,632	4,099
Cavalier	579,702	573,820	5,118	3,435
Dickey	43,768	35,128	7,132	11
Divide	3,467	2,607		13
Dunn				
Eddy	56,945	55,490	1,108	70
Emmons	3,688	2,850	120	743
Foster	187,370	239,185	3,743	1,179
Grand Forks	413,103	396,120	3,258	2,900
Griggs	65,601	67,373		
Hottinger				
Kidder	13,569	12,585	233	801
LaMoure	98,186	92,086	5,214	429
Logan	21,406	21,300		
McHenry	34,617	32,248	2,722	393
McIntosh	6,074	5,515	536	80
McKenzie				
McLean	2,311	1,841	989	18
Mercer				
Morton	870		886	
Mountrail	1,311	1,166	296	49
Nelson	247,843	241,787	6,039	845
Oliver				
Pembina	584,041	583,862	4,829	4,829
Pierce	56,089	54,593	1,561	414
Ramsey	239,401	236,610	2,627	716
Ransom	57,483	56,873	863	135
Renville	18,075	17,688	885	81
Richland	176,108	174,546	2,369	537
Rolette	104,186	102,034	1,169	301
Sargent	89,695	89,040	2,088	201
Sheridan	7,945	891	662	65
Stark	9,511			
Steele	136,259	126,002	470	262
Stutsman	107,946	101,150	4,942	2,152
Towner	145,359	140,587	4,148	1,164
Trail	804,227	271,237	2,697	1,440
Walsh	552,201	534,341	1,494	1,409
Ward	18,795	15,447	3,425	70
Wells	137,787	139,141	1,114	27
Williams	1,510	1,531		
Total	5,051,649	5,022,672	91,243	32,473

HULL-LESS BARLEY—1912.

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings	20		20	
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total	20		20	

SPRING RYE—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	134	135		
Benson	5		5	
Billings				
Bottineau	357	364		
Bowman				
Burke	92		92	
Burleigh	5,314	5,410	133	192
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy	876	650	223	
Emmons	973			973
Foster	3,444	2,801	319	
Grand Forks	555	498	60	
Griggs	447	450		
Hettinger	12		12	
Kidder	4,453	4,042	536	7
LaMoure	976	179	257	609
Logan	87	87		
McHenry	471	301	17	
McIntosh				
McKenzie				
McLean	1,089	854	205	
Mercer				
Morton				
Mountrail				
Nelson				
Oliver	47			47
Pembina	3,089	3,060	61	
Pierce				
Ramsey	267	267		
Ransom	1,085	681	354	
Renville				
Richland	7,518	7,518	62	
Rolette				
Sargent	591	142	532	
Sheridan	2,854	2,186	623	
Stark				
Steele				
Stutsman				
Towner				
Trail	17,419	18,137	21	
Walsh	7,851	7,937		
Ward	195		196	
Wells	3,608	3,225	417	
Williams				
Total	68,654	58,424	4,136	1,818

WINTER RYE—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	1,552	1,469	101	54
Benson				
Billings				
Bottineau	986		448	494
Bowman				
Burke				
Burleigh	192			192
Cass	61,493	56,043	602	2,206
Cavalier				
Dickey	40,405	37,026	3,179	
Divide	1,027	1,031		
Dunn				
Eddy				
Emmons				
Foster	5,089	3,685	1,804	
Grand Forks				
Griggs	493	68		385
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry	121	1	61	
McIntosh				
McKenzie				
McLean	1,483	1,483		
Mercer				
Morton				
Mountair				
Nelson	6,507	6,511		
Oliver				
Pembina	2,247	2,079	385	869
Pierce				
Ramsey	452	312	140	
Ransom	1,406	1,406		
Renville				
Richland	7,767	7,585	127	
Rolette				
Sargent	830	706	6	123
Sheridan				
Stark				
Steele	202			211
Stutsman	1,889	1,897		
Towner	10	10		
Traill	27,347	26,057	1,507	109
Walsh	12,738	8,748		
Ward	158	158		
Wells				
Williams				
Total	174,394	156,174	8,860	4,143

SPELTS—1912.

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh	50		50	
Cass				
Cavalier				
Dickey	1,223	600	623	
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hottinger				
Kidder				
LaMoure	75		75	
Logan	5		5	
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey	890	285		
Ransom				
Renville				
Richland	293	291		
Rolette				
Sargent				
Sheridan				
Stark				
Steele	948	948		
Stutsman	525		525	
Towner	328		328	
Traill				
Walsh				
Ward				
Wells				
Williams				
Total	4,337	2,124	1,606	

STATE OF NORTH DAKOTA

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CORN—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	11,944		11,788	22
Barnes	5,184	27	4,871	252
Benson	11,194	710	10,477	
Billings				
Bottineau	13,207	3,861	14,171	72
Bowman	27,072	6,577	35,096	202
Burke				
Burleigh	4,488		4,418	
Cass	4,824		1,145	
Cavalier	5,329	792	4,299	150
Dickey	18,871	2,805	11,584	
Divide	1,147	71	1,057	
Dunn				
Eddy			432	
Emmons	4,880	750	11,091	
Foster	3,868		2,317	785
Grand Forks	1,069		1,069	
Griggs	888	882		
Hettinger	8,600		11,070	32
Kidder				
LaMoure	11,860			
Logan				
McHenry	13,588	1,227	12,565	719
McIntosh				
McKenzie				
McLean	10,459	1,205	29,154	
Mercer				
Morton	5,791	252	8,082	6
Mountrail	7,174	2,747		84
Nelson	6,297		6,292	
Oliver				
Pembina				
Pierce	7,899		7,216	183
Ramsey	5,119		4,020	
Ransom	20		20	
Renville	19,077	5,545	1,839	
Richland	7,351	4,720	2,621	
Rolette	2,408	3,201	4,200	
Sargent	17,868	3,181	18,968	
Sheridan				
Stark				
Steele				
Stutsman	3,958	2,780	6,184	12
Towner	19,998	5,866	12,897	46
Trall	1,234		1,234	
Walsh	1,071	1,015		19
Ward	14,874	1,777	12,855	48
Wells	1,941		1,791	
Williams	724	868	857	
Total	279,158	49,759	248,768	2,498

POTATOES—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau	1,652	1,660		
Bowman				
Burke				
Burleigh	30		30	
Cass				
Cavalier				
Dickey	210,175	210,175		
Divide				
Dunn				
Eddy				
Emmons				
Foster	4,620	4,500	110	
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette	30,000	30,000	30,000	
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trails				
Walsh				
Ward				
Wells				
Williams				
Total	246,477	246,337	30,140	

ROOTS—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
Lamoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total				

MILLET SEED—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams	12		12	
Barnes	1,084	1,084		
Benson				
Billings				
Bottineau				
Bowman	600	600	7	
Burke				
Burleigh	186		186	
Cass	184		184	
Cavalier				
Dickey	3,891	2,400	991	
Divide				
Dunn				
Eddy				
Emmons				
Foster	75		69	6
Grand Forks	17,005	18,000	5	
Griggs				
Hettinger				
Kidder				
LaMoure	52	78		
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsay				
Ransom	570	550	20	
Renville				
Richland	123	123		
Rolette				
Sargent	1,877	1,880	99	
Sheridan				
Stark				
Steele	268			
Stutsman				
Towner				
Trall				
Walsh	40			
Ward				
Wells				
Williams				
Total	25,862	24,615	1,528	6

HUNGARIAN SEED—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks	3		2	1
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry	58		58	
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill	209	164	45	
Walsh				
Ward				
Wells				
Williams				
Total	270	164	105	1

CLOVER SEED—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson	1		1	
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks	2		1	1
Griggs				
Hettinger				
Kidder				
LaMoure	1		1	
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total	4		2	1

TIMOTHY SEED—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes	666			666
Benson	1		1	
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass	1,603	1,613		
Cavalier	23	23		
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster	59		59	
Grand Forks	617	617	1	1
Griggs				
Hettinger				
Kidder				
LaMoure	9	9		
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina	173	173		
Pierce				
Ramsey				
Ransom	200	200		
Renville				
Richland	25	25		
Rolette				
Sargent	689	696		
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trail	63	63		
Walsh	162	189		
Ward				
Wells				
Williams				
Total	4,290	3,537	61	667

ALFALFA SEED—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Trall				
Walsh				
Ward				
Wells				
Williams				
Total				

BROME GRASS—1912

County	Bushels			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey				
Divide				
Dunn				
Eddy				
Emmons				
Foster				
Grand Forks				
Griggs				
Hettinger				
Kidder				
LaMoure	28		28	
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey	200			
Ransom				
Renville				
Richland				
Rolette				
Sargent				
Steele				
Sheridan				
Stark				
Stutsman				
Towner				
Trisill				
Walsh				
Ward				
Wells				
Williams				
Total	228		28	

HAY—1912

County	Tons			
	Bought	Shipped	Retailed	On Hand
Adams				
Barnes				
Benson				
Billings				
Bottineau				
Bowman				
Burke				
Burleigh				
Cass				
Cavalier				
Dickey	1,011	1,011		
Divide				
Dunn				
Eddy				
Emmons	1,443	1,443		
Foster				
Grand Forks				
Griggs				
Heptinger				
Kidder				
LaMoure				
Logan				
McHenry				
McIntosh				
McKenzie				
McLean				
Mercer				
Morton				
Mountrail				
Nelson				
Oliver				
Pembina				
Pierce				
Ramsey				
Ransom	75	75		
Renville				
Richland				
Rolette				
Sargent				
Sheridan				
Stark				
Steele				
Stutsman				
Towner				
Traill				
Walsh				
Ward				
Wells				
Williams				
Total	2,529	2,529		

NORTH DAKOTA FAIR ASSOCIATIONS—1911
(Chapter 125, 1907)

Reported	Name of Association and Officers—Where Held	Dates Claimed
February 28, 1911	North Dakota State Fair Association—Grand Forks	July 25-26-27-28-29
April 10, 1911	A. I. Hunter, President M. C. Bacheller, Secretary Barnes County Agri. Fair Association—Valley City	July 3-4-5-6
April 10, 1911	C. F. Mudgett, President Geo. A. McFarland, Secretary Benson County Fair Association—Leeds	August 1-2-3
May 18, 1911	M. L. Strong, President F. E. Woods, Secretary Bottineau County Agri. Society—Bottineau	July 13-14
May 17, 1911	R. B. Hamilton, President John McKenzie, Secretary Burke County Fair & Racing Assn.—Bowbells	October 5-6
April 10, 1911	T. O. Hunter, President H. L. Richardson, Secretary Inter-State Fair—Fargo	July 18-19-20-21
April 20, 1911	W. A. Scott, President Wm. Ballou, Secretary Cavalier County Fair Association—Langdon	August 9-10-11
April 12, 1911	Robert Micklejohn, President F. W. Bleakley, Secretary Griggs County Fair Association—Cooperstown	June 28-29-30
May 16, 1911	J. G. Mills, President Theo. Marquardt, Secretary LaMoure Fair & Racing Association—LaMoure	July 3-4
April 26, 1911	David Stewart, President T. S. Hunt, Secretary McHenry County Agri. Fair Association—Granville	September 28-29-30
May 8, 1911	John Ross, President A. P. Simonson, Secretary McLean County Fair Association—Underwood	October 3-4-5
April 27, 1911	J. T. Hoge, Secretary G. A. Brown, President Missouri Slope Agri. & Fair Assn.—Mandan	September 12-13-14-15
	C. F. Massingham, President Dr. E. Mackey, Secretary	

NORTH DAKOTA FAIR ASSOCIATION—1911—Continued.

Reported	Name of Association and Officers—Where Held	Dates Claimed
April 12, 1911	Pembina County Fair & Exhibition Assn.—Hamilton J. F. Kippen, President John Rock, Secretary	August 1-2-3
April 10, 1911	Richland County Fair Association—Wahpeton B. F. Lounsbury, President R. J. Hughes, Secretary	September 26-27-28-29
April 12, 1911	Stutsman County Fair Association—Jamestown Geo. W. Walla, President E. M. Kurtz, Secretary	June 26-27-28-29-30
May 1, 1911	Ward County Farmers Agri. Fair Assn.—Minot H. H. Kemper, President A. V. Swanson, Secretary	September 18-19-20
April 10, 1911	Wells County Fair Association—Fessenden John D. Connor, President E. F. Volkman, Secretary	July 8-4-5
April 10, 1911	Wells County Agri. Association—Harvey Hugh Montgomery, President W. L. Buttz, Secretary	July 8-4-5
May 10, 1911	Williams County Fair Assn.—Williston Chas. Mansfield, President L. S. Champine, Secretary	September 20-21-22

NORTH DAKOTA FAIR ASSOCIATIONS—1912
(Chapter 125, 1907)

Reported	Name of Association and Officers—Where Held	Dates Claimed
April 8, 1912	North Dakota State Fair Association—Fargo R. S. Lewis, President E. S. Talcott, Secretary	July 22-23-24-25-26-27
March 14, 1912	Barnes County Agri. Fair Assn.—Valley City Geo. A. McFarland, Secretary	July 8-9-10-11
March 18, 1912	Benson County Fair Association—Leeds A. T. Hilmen, President	July 30-31—August 1
March 15, 1912	Henry Hennitta, Secretary Bottineau County Agri. Society—Bottineau R. B. Hamilton, President	July 17-18
May 14, 1912	John McKenzie, Secretary Burke County Fair & Racing Assn.—Bowbells T. O. Hunter, President	June 25-28 (Spring Meet) October (Fair)
March 15, 1912	H. L. Richardson, Secretary Cavalier County Fair Association—Langdon Robert Micklejohn, President	August 7-8-9
March 13, 1912	F. W. Bleakley, Secretary Grand Forks County Agri. Society—Grand Forks E. L. Goodman, President	July 30-31—August 1-2
May 6, 1912	M. C. Bachelier, Secretary LaMoure Fair & Racing Assn.—LaMoure E. C. Shaver, President	September 17-18-19
May 2, 1912	T. S. Hunt, Secretary McLean County Fair Assn.—Underwood G. A. Brown, President	September 25-26-27
April 3, 1912	J. T. Hoge, Secretary Missouri Slope Agri. & Fair Assn.—Mandan C. F. Massingham, President	September 17-18-19-20
March 18, 1912	A. W. Furness, Secretary Pembina County Fair & Exhibition Assn.—Hamilton P. H. McMillan, President	August 6-7-8
May 9, 1912	John Rock, Secretary Walhalla Fair Association—Walhalla J. T. Blacklock, President C. W. Andrews, Secretary	September 25-26

NORTH DAKOTA FAIR ASSOCIATION—1912—Continued.

Reported	Name of Association and Officers—Where Held	Dates Claimed
March 13, 1912	Richland County Fair Association—Wahpeton B. F. Lounsbury, President B. J. Hughes, Secretary	September 24-25-26-27
March 30, 1912	Stutsman County Fair Association—Jamestown C. B. Buckley, President E. M. Wells, Secretary	July 16-17-18
March 25, 1912	Trail County Agri. Association—Hillaboro Ole Arnegard, President Julius Balkum, Secretary	October 2-3-4
May 11, 1912	Ward County Farmers Agri. Fair Assn.—Minot Joe Roach, President A. A. Robinson, Secretary	September 24-25-26
April 25, 1912	Wells County Fair Association—Fessenden T. L. Quarve, President H. B. Crinklaw, Secretary	July 8-9-10
May 9, 1912	Wells County Agri. Association—Harvey Hugh Montgomery, President W. L. Buttz, Secretary	1st Week August

LIVE STOCK TAKEN UP UNDER ESTRAY LAW

July 1, 1910, to June 30, 1912

County	Horses	Cattle	Hogs	Sheep	Extensions
Adams	34	2	1		37
Barnes	8	4			12
Benson	19	20			39
Billings	20	3	7		30
Bottineau	21	13			34
Howman	35	3			38
Burke	35	9			44
Burleigh	26	1			27
Cass	16	14			30
Cavalier	1	7			8
Dickey	19	5			24
Divide	27	5			32
Dunn	20	2			22
Eddy	4	10			14
Emmons	16				16
Foster	3				3
Grand Forks	8	8	1		17
Griggs	6	12			18
Hottinger	29	4			33
Kidder	41	2			43
LaMoure	16	39			55
Logan	3	4		9	16
McHenry	24	1			25
McIntosh	1				1
McKenzie	33	5			38
McLean	53	4			57
Mercer	6				6
Morton	92	30			122
Mountain	22	7			29
Nelson	17	17			34
Oliver	5	1			6
Pembina	1	2			3
Pierce	9	3			12
Ramsey	25	9			34
Ransom	3	1			4
Renville	3				3
Richland	5	8	10		23
Rolette	2	2			4
Sargent	9	5			14
Sheridan	5	6			11
Stark	12	18	2		27
Steele	1		1		2
Stutsman	20	3	4		27
Towner	4	6	1		11
Trall		9			9
Walsh		10			10
Ward	94	12	3		109
Wells	28	14	1		43
Williams	50	11	1		62
Total	981	348	32	9	1,815

STOCK BRAND REGISTRATION

Date	No. Copies	Certified Copies	Fees
1910			
July	11	---	\$22.00
August	17	---	34.00
September	11	---	22.00
October	20	1	41.00
November	25	1	51.00
December	16	1	33.00
1911			
January	15	---	30.00
February	8	---	16.00
March	11	---	22.00
April	12	---	24.00
May	26	1	53.00
June	20	---	40.00
July	16	---	32.00
August	21	---	42.00
September	6	---	12.00
October	8	---	16.00
November	29	---	58.00
December	19	---	38.00
1912			
January	14	---	28.00
February	15	---	30.00
March	19	---	38.00
April	22	---	44.00
May	15	---	30.00
June	16	---	32.00
Totals	392	4	\$788.00

CERTIFIED COPIES

Of Sire Certificates

Certain stallion owners in this state having either misplaced or lost the sire certificates previously issued to them from this department, and having made written requests for certified copies thereof, in April, 1911, I issued two such copies, and in May, 1911, I issued four such copies. A fee of \$1.00 was charged in each instance and the amount, \$6.00, was turned in to the state treasurer with other fees for those months.

COAL MINE LICENSES

Date	No. Issued	Fee
1910		
August	1	\$ 5.00
November	15	75.00
December	25	125.00
1911		
January	3	15.00
March	2	10.00
April	1	5.00
May	3	15.00
June	1	5.00
August	15	75.00
September	1	5.00
November	10	50.00
December	7	35.00
1912		
February	2	10.00
March	2	10.00
Totals	88	\$440.00

COAL MINES REPORTED AND LICENSED

For Period Ending

June 1911, and June 1912, *Respectively.

License No.	Name	Location	Date	
			Issued	Expired
59	Spring Butte Coal Mine	4-130- 92	5-15-11	July, 1911
13	Clermont Coal Mine	16-129- 94	11-17-10	July, 1911
91	Clermont Coal Mine	16-129- 94	12-12-11	July, 1912
16	Haynes Coal & Mining Co.	8-129- 94	11-22-10	July, 1911
64	Haynes Coal & Mining Co.	8-129- 94	8- 1-11	July, 1912
17	Monroe & Kuepper	16-129- 94	11-22-10	July, 1911
76	Monroe & Kuepper	16-129- 94	10-24-11	July, 1912
40	The Haynes Coal Assn.	9-129- 94	12- 9-11	July, 1911
77	The Haynes Coal Assn.	9-129- 94	11-10-11	July, 1912
60	Scranton Coal Mine	24-131-100	6-19-11	July, 1911
68	Scranton Coal Mine	24-131-100	8- 1-11	July, 1912
27	Washburn Lignite Coal Co.	1-142- 80	12- 1-10	July, 1911
93	Washburn Lignite Coal Co.	1-142- 80	12-21-11	July, 1912
52	Yienget Coal Mine	34-142- 79	1- 6-11	July, 1911
50	Eckland Coal Mine	8-142- 79	12-23-10	July, 1911
87	Eckland Coal Mine	8-142- 79	12- 2-11	July, 1912
23	Peterson Coal Mine	9-142- 79	11-29-10	July, 1911
78	Peterson Coal Mine	9-142- 79	11-16-11	July, 1912
58	Parsons Coal Mine	8-141- 79	5-10-11	July, 1911
34	Lind Coal Mine	6-142- 79	12- 7-10	July, 1911
79	Lind Coal Mine	6-142- 79	11-16-11	July, 1912
14	Satterlund Coal Mine	6-144- 82	11-22-10	July, 1911
74	Satterlund Coal Mine	6-144- 82	8-10-11	July, 1912
10	Porger Coal Mine	10-156- 94	8-16-10	July, 1911
97	Porger Coal Mine	10-156- 94	3-30-12	July, 1912
30	Hebron Fire & Pressed Brick Co.	11-140- 90	12- 5-10	July, 1911
65	Hebron Fire & Pressed Brick Co.	11-140- 90	8- 1-11	July, 1912
32	North Star Mine	8-140- 90	12- 5-10	July, 1911
48	Dakota Coal Products Co.	15-139- 85	12-21-10	July, 1911
86	Dakota Coal Products Co.	15-139- 85	11-29-11	July, 1912
55	Geo. J. Ormiston	17-137- 84	8-17-11	July, 1911
29	Pleasant Valley Coal Mine	8-143- 84	12- 5-10	July, 1911
81	Pleasant Valley Coal Mine	8-142- 84	11-21-11	July, 1912
24	Melhoff & Klatt	2-141- 84	11-30-10	July, 1911
88	Melhoff & Klatt	2-141- 84	11- 6-11	July, 1912
56	Lehigh Coal Mine	8-139- 95	4- 1-11	July, 1911
95	Lehigh Coal Mine	8-139- 95	2-29-12	July, 1912
39	Zenith Coal Mine	6-139- 98	12- 8-10	July, 1911
72	Zenith Coal Mine	6-139- 98	8- 1-11	July, 1912
21	North Dakota Pressed Brick Co.	7-139- 95	11-28-10	July, 1911
89	North Dakota Pressed Brick Co.	7-139- 95	11- 6-11	July, 1912
22	Bertleson Coal Mine	29-162- 88	11-28-10	July, 1911
49	Mammoth Spring Coal Mine	27-153- 82	12-22-10	July, 1911
37	Strong Coal Mine	27-152- 81	12- 8-10	July, 1911
33	Smith Dry Coal Mine	18-160- 88	12- 5-10	July, 1911
69	Smith Dry Coal Mine	18-160- 88	8- 1-11	July, 1912
26	Baden Coal Mine	26-159- 88	12- 1-10	July, 1911
82	Baden Coal Mine	26-159- 88	11-21-11	July, 1912
25	Domrese Coal Mine	24-162- 94	11-30-10	July, 1911
84	Domrese Coal Mine	24-162- 94	11-27-11	July, 1912
53	Kenmare Diamond Coal Mine	29-160- 88	1-24-11	July, 1911
45	Stafford Land Co.	15-152- 82	12-16-10	July, 1911
11	Farmers Lignite Mine	20-161- 88	11- 5-10	July, 1911
63	Farmers Lignite Mine	20-161- 88	8- 1-11	July, 1912
19	Leeson Coal Mine	19-152- 81	11-28-10	July, 1911
62	Leeson Coal Mine	19-152- 81	8- 1-11	July, 1912
35	Makee Coal Mine	30-164- 98	12- 7-10	July, 1911
75	Makee Coal Mine	30-164- 98	8-23-11	July, 1912
47	Kenmare Brick & Coal Co.	32-160- 88	12-21-10	July, 1911
85	Kenmare Brick & Coal Co.	32-160- 88	11-29-11	July, 1912

COAL MINES REPORTED AND LICENSED—Continued

License No.	Name	Location	Date	
			Issued	Expired
57	W. D. Cadisch	29-152-88	5-10-11	July, 1911
94	W. D. Cadisch	29-152-81	2- 2-12	July, 1912
15	Walker Coal Mine	27-153-82	11-22-10	July, 1911
80	Walker Coal Mine	27-153-82	11-18-11	July, 1912
44	Davis Coal Mine	12-155-84	12-16-10	July, 1911
70	Davis Coal Mine	12-155-84	8- 1-11	July, 1912
18	Hunnewell Coal Mine	1-155-84	11-22-10	July, 1911
28	Lloyd Coal Co.	32-156-84	12- 1-10	July, 1911
73	Lloyd Coal Co.	32-156-84	8- 1-11	July, 1912
96	Wallace Coal Mine	2-155-84	3- 8-12	July, 1912
46	Jewel Coal Mine	29-158-86	12-19-10	July, 1911
36	Crosby Coal Mine	30-161-88	12- 7-10	July, 1911
67	Crosby Coal Mine	30-161-88	8- 1-11	July, 1912
20	Vadnais Coal Mine	29-160-88	11-25-10	July, 1911
42	Fenster Bros. Coal Mine	7-162-94	12-13-10	July, 1911
51	Noonan Coal Mine	3-162-95	1- 6-11	July, 1911
92	Noonan Coal Mine	3-162-95	12-16-11	July, 1912
12	Spring Coulee Coal Mine	1-155-94	11- 7-10	July, 1911
54	McClure Coal Mine	30-156-84	3- 2-11	July, 1911
83	McClure Coal Mine	30-156-84	11-28-11	July, 1912
43	Traux Coal Mine	10-162-95	12-14-10	July, 1911
90	Traux Coal Mine	10-162-95	12- 8-11	July, 1912
41	Black Diamond Coal Mine	33-154-100	12-10-10	July, 1911
66	Black Diamond Coal Mine	33-154-100	8- 1-11	July, 1912
31	Bruegger Lignite Coal Co.	3-155-100	12- 5-10	July, 1911
71	Bruegger Lignite Coal Co.	3-155-100	8- 1-11	July, 1912
38	Williston Lignite Coal Mine	33-154-100	12- 8-10	July, 1911
61	Williston Lignite Coal Mine	33-154-100	8- 1-11	July, 1912

MINES REPORTED, BUT NOT LICENSED FOR PERIOD ENDING JUNE 30, 1911

Date	Reported by	Location of Mine	Tonnage Output 7-1-09 to 6-30-10
12-12-10	Giddings Knowles	26-152- 81	300
12-16-10	John F. Albers	32-143- 85	193
12-16-10	Elizabeth McClellan	22-142- 80	300
12-19-10	David Westlund	24-150- 98	.....
12-19-10	Earl Walter	15-156- 94	.....
12-21-10	Victor Coleman	18-142- 78	100
12-22-10	Emma E. Papke	9-154- 91	200
12-23-10	Gust Asklund	6-142- 79	.....
12-12-10	A. M. Johnson	1-142- 79	16
1-24-11	Farrell Riley	8-139- 95	.....
1-24-11	A. K. Westegaard	32-160- 88	400
1-24-11	John J. McIntosh	5-158- 87	300
1-24-11	J. S. Greenup	20-162- 93	110
1-30-11	George Wasson	35-152- 81	50
3- 7-11	J. W. Ingison	30-161- 88	*791
3-21-11	Geo. W. Tyler	25-142- 84	.....
3-23-11	H. A. Lombard	9-182-102	.....
3-30-11	Attys for Standard Mine .....	.....	.....
Total Tonnage .....		.....	2,760

*Closed.

MINES REPORTED, BUT NOT LICENSED FOR PERIOD ENDING JUNE 30, 1912

Date	Reported by	Location of Mine	Tonnage Output 7-1-10 to 6-30-11
8- 9-11	Emma E. Papke	9-154- 91	.....
8- 9-11	Geo. W. Tyler	25-142- 84	.....
8- 9-11	Geo. J. Ormiston	17-137- 84	.....
8- 9-11	John F. Albers	32-143- 85	160
8- 9-11	John J. McIntosh	5-158- 87	.....
8- 9-11	C. C. Stafford	15-152- 82	55
8- 9-11	Geo. Wasson	35-152- 81	.....
8- 9-11	J. S. Greenup	20-162- 93	200
8- 9-11	Attorneys for Standard Mine .....	.....	.....
8-22-11	W. A. Daniels, Mgr.	1-155- 94	150
9- 6-11	J. W. Ingison	30-161- 88	445
11-16-11	A. M. Johnson	1-142- 79	174
11-20-11	Roscoe W. Beighle	27-163- 82	478
11-24-11	Joe Parsons	8-141- 79	445
12- 2-11	Sam P. Kay, Mgr.	15-156- 94	173
12- 6-11	Victor Coleman	18-142- 78	150
12-13-11	H. T. Wadeson	8-140- 90	1,125
12-13-11	G. W. Vahl	29-158- 86	*1,017
12-14-11	Saml. Kanenwischer	35-152- 81	250
12-19-11	A. Vandergrift	19-151- 97	.....
12-27-11	J. H. Treat	4-130- 92	*847
2- 6-11	Joe Strong	27-152- 81	*2,000
2-10-11	Fred Fenster	7-162- 94	*1,700
2- 1-11	C. B. Viangst	34-142- 79	*619
7-15-11	Farrell Riley	8-139- 95	.....
8- 9-11	H. A. Lombard	9-182-102	.....
8- 9-11	Gus Asklund	6-142- 79	.....
Total Tonnage .....		.....	9,988

*Closed.

SUMMARY OF FEES

Stock brand registration	\$	788.00
Certified copies of sire certificates		6.00
Coal mine licenses		440.00
Amount turned into state treasury	\$	1,234.00

STATE TREASURER'S RECEIPTS

Number	Month	Amount
1910		
2422	July	\$ 22.00
2547	August	39.00
2737	September	22.00
2819	October	41.00
87	November	126.00
293	December	158.00
1911		
872	January	45.00
1227	February	16.00
1321	March	32.00
1442	April	31.00
1542	May	72.00
1710	June	45.00
2661	July	32.00
3224	August	117.00
3653	September	12.00
A— 18	October	21.00
A— 278	November	108.00
A— 500	December	73.00
1912		
A—1160	January	28.00
A—1618	February	40.00
A—1966	March	48.00
A—2167	April	44.00
A—2419	May	30.00
A—2769	June	82.00
Total		\$ 1,234.00



PROMOTION OF IMMIGRATION.**REPORT**

It is now more than seven years since an exact and well defined policy has been in operation relating to the promotion of immigration and having for its object the general distribution of correct information concerning North Dakota, its resources and opportunities, to the end that a desirable class of settlers might be induced to make the state their permanent home and engage in the cultivation of our vast tracts of fertile lands.

At the commencement of this period it was found that much misinformation existed in the minds of outsiders concerning climatic and social conditions within the state. Exaggerated stories of the suffering endured by pioneers from cold, distance from markets, scarcity of fuel, etc., etc., had been industriously circulated by those who were unfriendly towards the whole Northwest, because of the heavy immigration of the most desirable class of eastern farmers thereto, and also by those who were busily engaged in booming arid and sparsely settled areas in some of the southern and southwestern states.

In view of these conditions, it became apparent that only a vigorous campaign of education and enlightenment could be successful in removing the stigma cast upon the state by this diligent but untruthful class, in order that prospective settlers might be put in possession of the true facts and so be enabled to consider impartially the credentials of North Dakota as a proper and highly desirable place wherein to locate a permanent home.

Several methods of reaching the people of other states were considered, such as special cars of state products touring the country and stopping for a few hours at selected points; newspaper advertising; descriptive literature; and representative exhibits visiting state and county fairs of other states. The exhibit car method of propaganda was at once rejected, as savoring too much of the junketing idea and offering too little opportunity for an intimate intercourse with the people whose interest was sought. The other alternatives, however, were adopted in a general plan permitting the use of all, but emphasizing that part which proposed to exhibit carefully selected and representative collections of the state's products in those sections of other states where the display would do the most good. Following out this idea a preliminary contest among the farmers of the state was held every summer at which substantial money prizes were offered for the best samples of grains, grasses and other agricultural and garden products. From the best of these were selected from one, in the first year, to three, latterly, complete

exhibits, artistically arranged in solid, glass-fronted cases, suitable for frequent removals from place to place. Each of these was placed in charge of a competent representative of the department, a carefully selected itinerary arranged, and a tour made of those states from which it was expected settlers might be attracted. By adopting this method of securing space at a fair and staying there throughout its full course it was found that a much more effective opportunity was given for discussion and explanation than could be found by any other of the methods first considered. In this way Iowa, Indiana, Wisconsin and Illinois were covered and the actual products of North Dakota as grown the same year were shown to all visitors who might at some time or other perhaps be confronted with the problem of securing a new home among more congenial or less restricted environment. Gradually a well-defined knowledge of and interest in North Dakota was created, which it is certain resulted very frequently in permanent residence in our midst of an intelligent, energetic and skillful class of farmers and business men. The new settlers in time, as they became established in their new homes and prospered, still further assisted in bringing immigration to the state by writing to their friends back east and telling them of their good fortune. During all this time the department was active in compiling statistics, distributing folders, maps, souvenirs, and the North Dakota Magazine both from the home office at Bismarck and in connection with the travelling state exhibits.

Following this busy campaign outside of the state, and intended to be the outcome thereof, came the time when a much more ambitious method of state advertisement seemed to be warranted. This was no less an undertaking than the holding within the state itself of a representative industrial exposition, where all the varied agricultural, industrial and commercial enterprises of North Dakota, with evidences of its social and educational progress, could be fully displayed. Such an enterprise involved a scope of operation and the employment of so enlarged an operative machinery that its successful inception seemed almost impossible at the outset, especially when considered in connection with the serious curtailment of the funds available by the last legislative assembly. The idea, however, was in line with the system adopted by successful real estate dealers, and, after all, was but an endeavor to interest a larger public in a larger proposition than any yet handled by private firms or individuals. The successful realty man considers a sale half made if he can only interest his prospective client sufficiently as to induce him to visit personally the tract offered. Why then should not a great state be justified in attempting to bring within her own borders her potential citizens and, by showing them that state's

products, progress, hopes and aspirations, induce them to remain as landowners and home-builders?

The exposition was to come as the second stage of the publicity campaign of which the state exhibits were the first, and was intended to take advantage of the favorable sentiment created by them. It was the crucial test of the whole scheme. The pivotal question was—had the educational preliminaries been successful enough to enthuse people living hundreds of miles away to such an extent that they would come to see for themselves the wonders of our prairie lands? Would the enterprise attract outside attention, or would it degenerate into a mere local display of products raised in the immediate vicinity of the exposition city? In the report of this department to the last state legislature the following paragraph occurs, having reference to the efforts of the bureau to attract outside attention:

“It is a problem to exactly state what has been accomplished. While it is not difficult to state known results, yet it can only be conjectured as to what the future may bring forth as a result of the seed sown. It may require several years to ascertain all the facts, as many to whom literature was sent are not now in a position to come to North Dakota, no matter how strong may be their desire. Conditions exist which prevent them realizing their intentions. Hundreds of thousands have viewed our exhibits, but just how deep the impression these have made upon their minds or how lasting the effect they have created is purely problematical.”

The above was written less than two years ago and the department, by means of its proposed exposition, was about to put to a practical test the value of its previous efforts. Much was said and surmised both for and against the prospects of success. Bismarck—where the exposition was proposed to be held—was probably the smallest city where such an ambitious undertaking had ever been attempted. It was far removed from the beaten paths of such functions and, worst of all, there early became manifest a spirit of indifference with some, and even hostility with others, who should rightfully have been enthusiastically aligned from the start with those who were pushing the enterprise. On the other hand, if increase of population meant anything; if aroused interest, and hundreds of enquiries concerning the state and its activities had any significance; if the rapid settlement of government land and the steady rise in real estate values had any other than a purely speculative meaning, then the time was ripe, the psychological moment had arrived when the state could not only throw open its doors to the outside world, but could also be assured of a numerous and enthusiastic acceptance of the invitation.

The result need never have been in doubt. From the first—despite the drawbacks noted—success perched upon the banner of the Exposition. The railroads; public-spirited men all over the state; the citizens, farmers generally, and, in fact, every person and interest approached, all grasped the value of the change in policy and realized the timeliness of opportunity offered for the greatest and most concentrated effort in publicity to be made in the state's behalf.

A detailed description of the Exposition need not be given at this time. The event has been written in the state's history, and is there recorded as an epoch marking point in the progress of the commonwealth. The fact that it has been definitely decided to establish it as an annually recurring event is in itself the most eloquent testimony to the place which it has taken in the popular regard. Above all is the state to be congratulated that this exposition has proven beyond cavil that the development of North Dakota is so far advanced and its varied opportunities for those endowed with enterprise and initiative are so well known, that it is no longer necessary to clamor at the gates of eastern conservatism for that recognition which is our due, but that, on the contrary, our reputation has become established and possesses weight and stability among that desirable class that is always looking abroad for more profitable and extensive fields of operation.

The small amount appropriated for promotion of immigration by the last state legislature—only \$15,000 for the biennial period—also necessitated the discontinuance of the North Dakota Magazine, a circumstance much to be regretted, the magazine in question having, during the few years of its existence, accomplished a vast amount of work in removing the unjust prejudice which existed against the state in many quarters. To a certain extent its place has been filled by the publication of a monthly newspaper—the "State Bulletin"—during the summer months preceding the annual state exposition. This sheet is devoted to the interests of the state, specializing on exposition news, and is filling a useful place, although lacking the interesting illustrative features of its magazine predecessor.

A much appreciated item of promotion work has been the publication of a state-wide crop report during the growing and harvesting months of the year. By this means a large number of those who are interested in the state and its products have been kept reliably informed of the varying crop conditions as the season advanced. In 1912 this report was published as part of the State Bulletin, thus securing an even larger audience than before.

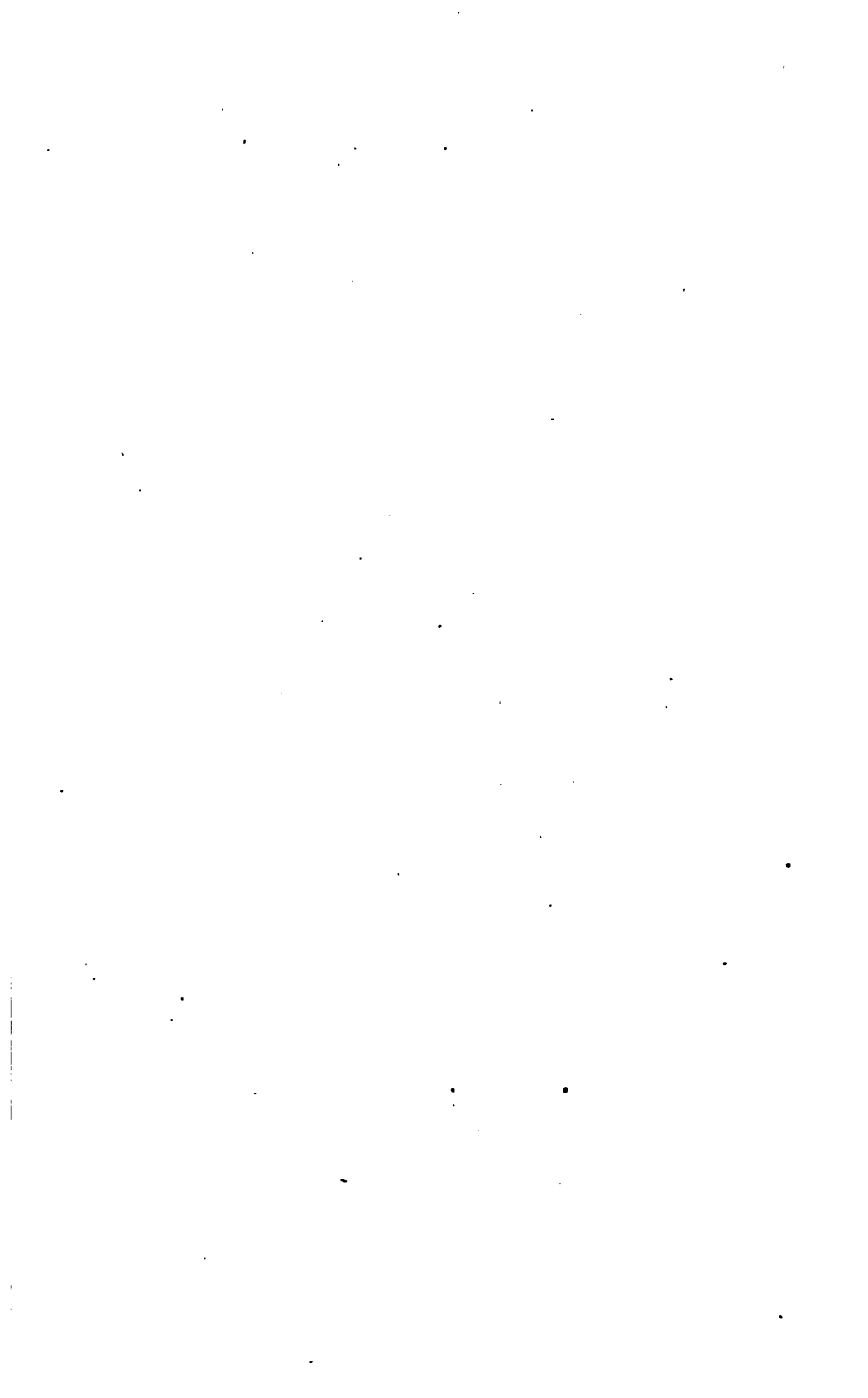
During the fall of 1911 another radical departure from previous methods of publicity was undertaken under the auspices

of this bureau. This consisted in arranging for and financing, at a cost of about \$2,500, North Dakota's share in the famous "Governors' Train" which so successfully toured the East at that time. This distinguished company was composed of the governors or representatives of Colorado, Minnesota, North and South Dakota, Montana, Idaho, Oregon, Nevada, Wyoming, Washington and California. A plentiful supply of literature descriptive of these states was on board the train and was freely distributed at thousands of towns and cities in the East. The trip was productive of much good in bringing the two widely separated parts of the Union together under such auspicious circumstances, the originality of the idea appealing to the public in a manner which could not have been attained by any other method. This eventful excursion was concluded in the early part of December at St. Paul, Minnesota, where was being held at the time the St. Paul Land Show in the interests of the great Northwest. North Dakota was adequately represented on this occasion by a very complete and representative collection of the state's products under the direct personal supervision of the commissioner of agriculture and labor. Over a ton of advertising matter was distributed at the same time.

During the year 1911 this branch of the department of agriculture issued 10,000 copies of the Year Book, a copiously illustrated volume containing two hundred seventy-two pages, being a short history of the growth, population and resources of every county in the state. It also published a legislative number of the North Dakota Magazine, a volume of one hundred seventy-four pages giving a brief biography of each member of both houses of the state legislature, state officials and members of the supreme court. There was also printed a pamphlet entitled "North Dakota and Her Magnificent Resources." This has proved so popular that it is now in its third edition of 10,000, which is being rapidly circulated. Nearly 100,000 maps of convenient size, containing the latest statistics concerning the state, have been printed. These maps are intended to keep the public informed of all changes in county boundaries and railway extensions, and are issued from time to time as occasion requires. During the last biennial period nearly 100,000 circular letters on subjects calculated to interest the public relating to the state and her resources have been mailed to every part of the Union; some of the editions of the State Bulletin have approached the 100,000 mark; equally large editions of the premium list offered in competition at the state exposition have been issued and distributed, while an illustrated, descriptive writeup of the 1911 exposition has been given equal publicity. Quite a number of grain exhibits were made during the past two years and collections were furnished to be sent to other states for advertising purposes.

From October 1st to 13th, 1912 was held the second Industrial Exposition in the enlarged buildings which now form the permanent home of that undertaking. The experiences of 1911 permitted a much more ambitious display, and many new features added to the usefulness and attractiveness of the exhibits. Dairy and poultry features, with illustrated moving picture lectures specially secured from the International Harvester publicity bureau were unique attractions on this occasion, and for the second time the value of this means of state advertisement was amply proven. Notwithstanding the unfavorable weather conditions, and backward state of harvesting and threshing conditions, a splendid attendance rewarded the efforts of the management, farmers and others from all parts of the state and beyond its borders attesting by their interested presence the wide scope of utility that the exposition is embracing.

As a fitting finale to a most successful two-year period of sustained effort in placing the state's resources and present state of development before the larger public of the whole United States may be mentioned the part taken by North Dakota in the great Land Products Show held at Minneapolis, November 12 to 23, 1912. From the vast collection of agricultural and other products gathered together at our own Industrial Exposition, previously mentioned, were selected the most typical and illustrative examples. These consisted of grains, tame and wild grasses, pottery, coal products, etc., carefully arranged in attractive cases, each bearing its message of the opportunity offered to every energetic citizen for securing a happy home and congenial occupation, should he elect to make the state of North Dakota his future residence. Literature and leaflets were also available for distribution to all who might be interested, the whole being under the personal charge of the commissioner. The interest evinced was immediate and continuous and there is every reason to believe that the benefits to accrue will be substantial and far-reaching, many new and desirable interests being attracted to North Dakota by reason of this comprehensive exhibit. At the close of the Land Products Show a portion of the state exhibit was sent on to Chicago in care of experienced representatives where it was useful in again conveying the story of our great agricultural state to the thousands of mid-continental visitors that thronged the aisles of the Chicago Land Show, which lasted for two weeks immediately following November 23, 1912.



BIENNIAL REPORT

OF THE

Dairy Commissioner

TO THE

Commissioner of Agriculture
and Labor

OF THE

Dairy Interests

For the Term Ending June 30, 1912



Farm Scene.



Jersey Herd.

LETTER OF TRANSMITTAL

Hon. W. C. Gilbreath,

Commissioner of Agriculture and Labor,

**Dear Sir :- I have the honor to submit herewith a report of the
Dairy Department for the biennial period ending June 30, 1912.**

Yours respectfully,

R. F. FLINT,

Dairy Commissioner.

STATE OF NORTH DAKOTA
DEPARTMENT OF AGRICULTURE AND LABOR
W. C. GILBREATH, Commissioner

DAIRY DEPARTMENT

R. F. FLINTDairy Commissioner
E. H. PIERCEAssistant Dairy Commissioner
F. W. MERRILL.....(Federal Dairymen Co-operating
R. C. JACKSONin Walsh and Pembina Counties)
E. B. HEATON.....Co-operating in LaMoure County
CONSTANCE STRAWStenographer

DAIRY DEPARTMENT FORCE, OCT. 1, 1912.

R. F. FLINTDairy Commissioner
E. H. PIERCEAssistant Dairy Commissioner
E. A. GREENWOODAssistant Dairy Commissioner
R. C. JACKSON(Federal Dairyman Co-operating
in Walsh and Pembina Counties)
MARGARET BROWNStenographer

REPORT

GENERAL CONDITIONS.

The close of the biennial period included in this report finds dairying established over the state both in actual practice and in favor with all classes of business much more securely than it has been at any previous time.

The conditions have not been, for at least one-half of the time, favorable for a large or even an average production, but these very conditions brought the returns for the products into prominent and appreciative attention.

The pastures of the late summer and fall of 1901 were exceptionally poor over a large portion of the state. In fact, both pasture and water conditions in numerous instances were quite serious.

The lack of rainfall also effected the supply of wild and tame hay as well as grain. Cows went into the winter in thin flesh, were fed largely on poor hay, straw, oftentimes from an old stack and in many instances principally on Russian-thistle hay. Large quantities of hay were shipped in to help out but grain feeding was the exception.

The shortage of feed caused many to turn cows into fields and pastures earlier in the following spring than was practical and their flesh and vitality was still further lowered, so that they were not in normal producing condition until well into the early summer. Production per cow was low under such conditions.

The light grain crop reduced the number of extra men surplus of dairy products to dispose of.

The shortage of "money" crops to dispose of encouraged the selling of cream rather than consuming it at home either in the raw or manufactured condition.

Pastures of 1911 were slow in starting in because of a lack of moisture in the soil from the previous year and a continuation of dry, windy conditions, but they were exceptionally good later.

Especially were the fall conditions favorable because of a second growth of grain in the fields, and production was heavy. An increase in the corn acreage over the previous season of approximately 100 per cent provided a much greater quantity of better forage and the hay crop being larger and of superior quality, even though the grain feed was scarce, cattle went into the winter of 1911-12 in fine shape.

The spring of 1912 found cattle in better condition than the previous one and pastures have been exceptionally good.

Thousands of new names have been added to the list of patrons of creameries. In many instances they were farmers who had never before produced dairy products for market.

Business men noticing that those who kept cows and sold cream met financial obligations better than those who did not, encouraged the purchasing of cows and pure bred dairy sires. Bankers in numerous instances, loaned funds to purchase cows when they would not for the purchase of seed grain.

Numerous car-loads of mature cows as well as young heifers, were purchased and shipped into the state. Nine cars were distributed from Minot alone; Park River, Grafton, Hettinger, Marion. Fargo and many other points were active along this line.

Especially must the bankers be given credit for effective activity in securing specific results in the introduction of dairy stock. Their activity was prompted because conditions had been such that they had forced to their attention the earning power of the dairy cow even under adverse conditions.

Individual farmers in all sections of the state began inquiring for dairy cows and had they been procurable within a reasonable distance thousands would have changed hands.

The department rendered such aid as was possible in the matter and, in assisting inquirers in locating sires of the breeds wanted did effective work.

Our people generally have been willing to pay a fair price for a good grade cow or heifer but in purchasing purebred sires they have been reluctant to pay the price. Too often they have chose a young untried sire. The reasons for this seem to be the scarcity of mature, proven sires within the state, a lack of appreciation of the advantages of breeding to a known high class prepotent animal compared to a questionable young one, and the difference in first cost.

All of the dairy breeds are now represented in the state. Holsteins and Jerseys are distributed over the state quite generally. The vicinity of Minot seems to be taking the lead in Guernseys. Ayrshires have the least representation of any of the recognized dairy breeds at present, a condition that will, no doubt, be adjusted in time as there seems to be many good reasons on which to base a belief that they would also be popular.

Of the dual purpose breeds the Brown Swiss are only slightly represented while Red Polls are well established. Grade Short-horn cows are supplying a much greater percentage of the dairy products of the state than are the dairy breeds.

Increased numbers of cows and greater appreciation of them was naturally accompanied by a demand for better, more convenient barns. The department officials have assisted in planning

and equipping a number. This is a field of work that offers excellent opportunities for intensely practical assistance. It calls, however, for personal contact with each farm from which requests come if the assistance rendered is to be of the highest efficiency.

Better barns mean much more for the dairy development than the effect of good shelter for the cows. The statement made to the writer by one dairyman that: "I have no difficulty in keeping men to milk because I have comfortable, convenient barns for them to work in", is highly significant.

MEETINGS.

Conditions have been exceptionally favorable for holding meetings and the department has been represented at a considerable number during the two years. We have co-operated with the Farmers Institute, State Dairymen's Association, fair and mid-winter gatherings in putting on practical dairy programs and exhibits.

Annual meetings of creamery companies, organization of new, or the rejuvenation of old ones, silo, sire and general dairy meetings have been attended and a great amount of assistance given and enthusiasm imparted.

INSPECTION.

Of the various duties devolving upon the dairy officials none is more productive of excellent results, yet at the same time leaves so little that can be pointed to as being specific evidence of supporting the statement, that creamery, cream station etc., inspection does.

It is a matter of regret that sufficient funds are not provided so that inspection could be extended to each farm where dairy products are produced for general market. The benefit lies not alone in a mere inspection, but in the encouragement given for better work, suggestions of methods and means to more economical production and manufacture, and in better sanitation without greatly increased labor or cost.

The department has striven to make such inspections what the spirit of the law and humanity intended they should be, assistance. That our suggestions have been of inestimable value not only to those to whom they were directed, but also to the public generally, will hardly be disputed by anyone with whom we have come in contact. A suggestion when carried out may not leave on the mind of the individual assisted a strong impression of having been benefited. Results are invariably more

or less removed from causes, hence the difficulty of indicating specific accomplishments for the department in this work.

Better sanitation is still needed—seriously indeed—but perfection cannot be reached. The best we can expect to do is to keep improving. Too radical requirements on our part only result in discouraging dairying and our duty is as much to encourage production as to regulate it.

So long as individuals have a thousand dollars invested in their principal line to every one hundred dollars in the dairy business sanitation must depend a great deal on the habits of the persons who are producing or handling the products.

This applies to farmer producer, and merchant cream station operator alike.

Frequent inspection of the most slovenly materially assists in improving conditions.

"Your standard of cleanliness is below the average. You must clean up your premises and keep clean", is a frequent expression of the dairy officials and has stimulated many to better future conditions.

The practicability and results of inspection work revolves itself into the question: What would the sanitary conditions become if there was no inspection?

SUB-REPORTS.

The writer believes that each person engaged in a work can tell his own story best and consequently submits as a portion of the report sub-reports from those who have, during the biennial period, been associated with the dairy department.

CREAMERY BUTTER CONTESTS.

The five months Educational Creamery Butter Contest inaugurated by this department in 1910 proved productive of so much interest among the buttermakers and their patrons, and brought such satisfactory results that it was thought advisable to conduct another during 1911.

The monthly scorings began in May and ended in September. Thirty-eight creameries were represented in one or more of the scorings and 120 samples of butter were judged and criticised. According to the rules of the contest butter coming from creameries operating power separators—receiving whole milk—were to be handicapped two points per entry in figuring averages for the prizes offered. Three prizes were offered by the State for the three highest averages under the rules, consisting of \$25.00, \$15.00, and \$10.00. The cash for these prizes was drawn from

the funds of the State Dairy Department. The prize winners were:

First—Philip Palmer	Steele, N. D.
Second—L. A. Graunke	Youngtown, N. D.
Third—Henry Swenson	Carpio, N. D.
Third—Wm. Engel	Ray, N. D.

Diplomas for persistency and meritorious performance in each of the five monthly scorings were also awarded.

Those whose scores averaged 90 or above are as follows, the first four being buttermakers in creameries receiving whole milk, in part at least, the balance receiving only cream:

L. A. Graunke, Youngtown	93.15
C. H. Tellman, Rosebud	92.40
J. M. Hein, New Salem	92.05
O. K. Wildgrube, Bluegrass	92.58
Philip Palmer, Steele	91.80
Henry Swenson, Carpio	91.10
Wm. Engel, Ray	91.10
Gust Kruempel, LaMoure	90.90
W. A. Krause, Walhalla	90.80
Oscar Lowgren, Wales	90.60
Carl Jensen, Hazelton	90.40

1912 CONTEST.

During 1912 the contests were continued adding one month, making six. They begun with May and ended with October.

Forty creameries were represented and 146 samples of butter were judged and criticised. The same rules applied as in previous year's contest excepting such changes as would include the additional month.

In judging, we had the co-operation of G. L. Martin, Professor of Dairying of the Agricultural College, Fargo, N. D., and O. A. Storvick of the Minnesota Dairy and Food Department and Mr. Sondergaard of the Federal Division for one or two scorings who served an excellent purpose as a check on our work.

That these contests have been productive of excellent results is plainly shown by the average scores of all samples of butter entered in the two years.

The average of scores of 1911	90.81
The average of scores 1912	91.36
Improvement .....	.55

The prize winners of 1912 were as follows:

First, Geo. Mieseler, Burnstad—Hankinson.

Second, E. J. Ehlert, Nesbit.

Third., Wm. Engel, Ray.

Those who entered each of the six contests whose average scores were 90 or above are submitted;

L. A. Graunke, Youngtown	93.58
O. K. Wildgrube, Blurgass	92.58
Geo. Mieseler, Hankinson	92.58
E. J. Ehlert, Nesbit	92.50
J. M. Hein, New Salem	92.50
Wm. Engel, Ray	92.25
Henry Swenson, Carpio	91.58
C. H. Tellman, Hanover	91.50
Iver Lovaas, Driscoll	91.
Walter Irgrens, Powers Lake	90.66
H. R. Gieseke, Medina	90.45
Philip Palmer, Steele	90.25

SILOS IN NORTH DAKOTA.

The silo has become an important factor in North Dakota, and the State Dairy Department has aided greatly in bringing this condition about.

The first silo erected in the State, so far as the department has been able to learn, was by Major R. E. Flemming about 1896 on his farm in Cass County, near Wheatland. At the time of this writing, this silo may still be seen from the car windows of the Northern Pacific Ry. trains, standing as it does, close to the track, a short distance east of Wheatland. It is built of wood, is not as high as present approved plans call for, has not seen constant service as a receptacle of silage, but indicates clearly the advanced ideas of some of our pioneer agriculturists.

An extensive search through correspondence early in 1912 brought reasonably reliable information, to the effect that there was at that time, in the State, 114 silos. One half that number were erected during 1911,

Many varieties were represented; stave, panel, frame, brick, tile, concrete block, and monolithic concrete. 88% of the total number were of wood, and 12%, of the other materials. The largest ones listed were 20 x 40 feet, having a capacity of approximately 280 tons of silage. Those having diameters of 14 or 16 feet predominating, and a lesser number of 12 and 18 feet. Elevations ran from 20 to 40 feet, 30 being the predominating height. They were distributed by counties as follows:

Barnes	17
Benson	1
Billings	1
Burleigh	1
Cass	18
Cavalier	2
Dickey	2

Grand Forks	8
Griggs	3
Morton	8
Mountrail	1
Pembina	5
Pierce	2
Ramsey	6
Richland	2
Sargent	6
Stutsman	2
Trail	10
Walsh	8
Ward	7
Williams	4
Total	114

Data regarding the varieties of corn grown for silage from 60 reporters showed that 44 used Northwestern Dent, wholly or in part, 14 Minnesota No. 13, either wholly or in part, and a few used flint and "fodder" corn.

The tonnage of silage per acre ran from 2.2 to 10.5, the average being 5.98 or approximately 6 tons per acre. This included both checkrow and drilled corn.

The earliest data given for the completion of filling a silo in 1911 was August 25, the largest, October 17, the average date being September 19th.

The number of men working in silo when filling ranged from naught to three. Average 1.4 No. of teams hauling, from 2 to 14. Average 5. No. of men at cutter table, 1 to 4. Average 2.3 Total number of men employed in filling silo ranged from 4 to 21. Average 9.7.

Replies to requests to report any unfavorable results with silo or silage brought very few, but did prompt many favorable ones. One reporter said, and no doubt quite truthfully, that, "The Silo and silage are not all that is claimed for them, especially by factory made silo salesmen." A number of reports of the blowing down, when empty, of wooden silos were received, the stave silos being the chief offenders in this regard.

In the main, however, silo and silage has won a very favorable standing in the estimation of the longest users.

The State Dairy Department, during 1909, began soliciting short articles from farmers in different sections of the State relating their experience and opinion of the silo, silage, and the general influence surrounding the growing of corn for silage. These articles were sent out as press notes, and received wide publicity. Many were also enclosed with office letters. Because

of their coming from our home people, over the farmers own signatures, they carried great weight.

April 23, 1910, the writer called a meeting at New Salem, Morton County, and secured to assist, C. F. Doane, Federal Dairyman, from Albert Lea, Minn. The sole object of this meeting was to discuss silos and silage. It was well attended and the interest was excellent. On the Monday following, accompanied by U. J. Downey, Superintendent of the N. D. Holstein Breeding Circuit Association, we visited several of the farms of those who appeared most interested, and pointed out to them just where the silo might be located to be most convenient.

Another meeting was held at Youngtown, seven miles in the country from New Salem, the following winter for further discussion of the silo problem. As a direct result of these meetings seven silos were purchased in one order and erected and filled in 1911.

The Dairy meetings attended by department officials during the winter of 1911-12 to a greater or less extent all took on the character of silo and silage meetings. The intense interest in the minds of the audiences made this necessary.

We were unusually fortunate in being able during the period covered by this report to receive assistance from the Federal Dairy Division.

At the time of the ending of the period of this report June 30, 1912, the activity in silo construction would seem to warrant the belief that the number of silos in the State would be double what they were at the beginning.

The department has given assistance with the building of all kinds of silos when requested, but has been especially interested in the monolithic concrete silo, believing that for most sections of our state it is quite practical.

The assistance rendered with these consisted in furnishing bills of material needed for a given capacity silo, and personal aid in the construction of forms or moulds, in laying out the foundation, placing of reinforcing, constructing mixing platforms, proportioning the concrete mixture, raising of forms, construction of scaffolding, and roof. In fact co-operating with the farmer and his farm laborers in the starting of a concrete silo and remaining with him until he had sufficient knowledge of the methods, and confidence to complete the construction without further aid. In all instances we stood ready to return for further assistance if we were needed. Our assistance has been without cost to those with whom we have co-operated.

As the silo assistance has been discussed more or less by others in the sub reports, it will not be taken up further here.

A silo construction circular giving general information was

issued in April 1912. There is an active demand for more detailed information and this we hope to be able to supply in time for the building season of 1913.

The monolithic concrete silos that the department and its allied assistants have helped to erect so far have proven satisfactory.

They are sufficiently substantial and durable as well as efficient, and erected at so moderate an expenditure of cash that in each section where one has been erected, others either have been added, or we have numerous requests for information and assistance for further construction.

FEDERAL AID.

During 1909 and 1910 we received valuable assistance from the manufacturing investigation branch of the Federal Dairy Division through Dairyman Joel G. Winkjer. His territory included Minnesota, North and South Dakota and Montana.

Early in December of the latter year we were advised that he was going to accept an appointment January 1, 1911 as Dairy and Food Commissioner of Minnesota. On receipt of the information, the writer immediately wrote to the chief of the Federal Dairy Division and repeated a request that had been made in person in Washington the preceeding May, that a Federal Dairyman be assigned to North Dakota exclusively.

In February, B. H. Rawl, chief of the Dairy Division, came to Bismarck. The general situation was gone over and before leaving, he announced that as soon as a suitable man could be secured he would be assigned to the State to co-operate with the State Department.

In April, 1911, Fred W. Merrill reported for service. Our intention at first was to co-operate with some co-operative creamery in establishing a cream grading system and with the patrons of the same in securing herd records and in the improvement of herd, barn, silo and general dairy farming operations.

Unfortunately, after taking this line of operation up at several different points it was abandoned because of a lack, at that time, of sufficient interest. However, a number of helpful meetings were held and many farms visited.

In June, federal dairy officials, Helmer Rabild and A. K. Risser visited the State. They requested that one or two counties be selected and Mr. Merrill be assigned to that territory. Walsh and Pembina Counties seemed to be the most logical ones.

Accompanied by the federal dairymen the writer went to Grafton, met with the Commercial Club and also the Commissioners of Walsh County who were in session.

The time and place were opportune and as a result an active spirit of co-operation was aroused. The Commissioners purchased a horse and buggy and placed them at the disposal of the Dairymen while located in that section. Pleasant office accommodations were provided by a private business firm.

The endorsement of the plan of the dairying campaign by the citizens and the press of the two counties was also of great benefit. Mr. Merrill's enthusiasm and ability for the work enabled him to make an especially good showing during the time he was engaged. He resigned February 1st to take up private work. At that time he submitted a report which covers his work quite thoroughly and will be found elsewhere in this report.

Robert C. Jackson was, in May, assigned to continue the work so well begun in Walsh and Pembina counties. His report for the short time he has been with us prior to the closing of our official year is also submitted.

AID IN LaMOURE COUNTY.

So many more calls for assistance, especially along silo construction lines, were coming in than were able to render that a request for additional help during the silo building season was made to the federal department early in 1912.

Requests had also gone in from Congressman Hanna and from several individuals, especially in LaMoure county where state senator W. C. McDowell was active in an attempt to improve the dairying conditions of that section.

As a result of this concerted action E. B. Heaton was assigned to LaMoure County in June. He assisted us there until October 1st. His report covering from June to September inclusive is also embodied in this report.

In view of the fact that our State Legislature failed to provide the appropriation asked for by the State Dairy Department, at a time when there was such an active demand throughout the state for assistance and when aid could be given with such excellent returns to the commonwealth, the aid from the Federal Dairy Department was doubly appreciated.

Being able to confine their energies to a limited territory their work shows concretely and creditably.

They brought new ideas, and rendered practical helpful work not only to the dairymen but also to the State Department.

The monolithic concrete silos they and the State Department men have helped farmers to erect will stand for a long time as monuments to the highest type of co-operative assistance, that is, helping a people to help themselves.

It is advisable, however, that it be known that we have no definite promise that this federal assistance will be continued

indefinitely. In fact we are advised that that is not their policy, but that after a federal dairyman has worked a sufficient time in a territory to demonstrate clearly the benefits of such work their assistance will be withdrawn believing that the commonwealth should through its legislature provide means and funds for continuing it.

It would therefore seem advisable for our dairymen and others interested to see that means are provided to continue the good work begun by federal men whenever they are withdrawn and also for the greatly increased demands and opportunities over the State generally.

REPORT OF E. H. PIERCE,
Assistant Dairy Commissioner.

My work has chiefly consisted of inspecting creameries and cream stations with a limited time devoted to the inspection of dairies and dairy farm buildings. I have also devoted a portion of that time in assisting buttermakers in cases where they were having trouble with their work, and in taking charge of creameries where they were left for a short time without a butter-maker.

Our dairy law requires that every creamery and cream station in the state be inspected at least once a year, but owing to the number of these and to the fact that many are in operation only for a portion of each summer, and to the limited force of the department, it has been impossible to carry on this work as thoroughly as it should have been, as the majority of the cream stations have required more attention than could be given by one visit a year. I have inspected the greater part of the creameries once, and many of the cream stations more than once a year. My method has been to visit all creameries and cream stations so far as possible, inspect them using blanks furnished for that purpose and, in every case where a buttermaker or cream agent was found operating under unsanitary conditions he was instructed to give the place a thorough cleaning and continue to keep it so under the penalty of the law, also provide screen doors and windows where they were not in evidence.

In cases where a creamery or cream station was found a second time in a very unclean condition, action was brought against the operator and, with one exception, convictions were secured and fines and costs amounting to from \$12.00 for the first offence to \$20.00 for the second were imposed.

In comparing reports on cream stations made at different times, I find that occasionally there is one who has kept his station in a fairly sanitary condition, but without frequent inspection the average man in that work has a tendency to become careless.

Too many of them have very little conception of the importance of cleanliness in the handling of dairy products. Generally speaking, the buttermaker takes more pride in his work and in keeping the creamery and surroundings in a fairly clean condition.

This inspection has been carried on during the summer and fall months, while during the winter and spring months I spent much time attending creamery meetings, assisting in organizing new creamery companies, and in attending Farmer's Institutes in various places throughout the state as one of the speakers. In all I have attended about eighty-five Farmer's Institutes and dairy meetings and spoken to approximately 2500 people.

From August 1st, to September 10, 1911, I worked with others constructing concrete silos in the North Eastern part of the state. Including from September 12th to 16th, I assisted in the superintending of the dairy department at the Morton County Fair held at Mandan, N. D.

From September 16th to October 25th I assisted in the work at the Industrial Exposition.

From May 30, to June 15, 1912 I assisted in the construction of two large, monolithic concrete silos at the Hospital for the Insane at Jamestown. From June 17th to 22nd inclusive, I superintended the construction of a concrete silo for Geo. S. Whitfield, near Glover, N. D.

The last few days of June were given to work on concrete silos southeast of Dickinson.

Report of Fred W. Merrill, Federal Junior Dairyman, Co-operating with the State Dairy Department in Walsh and Pembina Counties, from March 20, 1911 to February 15, 1912.

Grafton, N. D.

February 19, 1912.

I herewith submit a brief report of the work accomplished in North Dakota, thru the co-operation of the Federal Dairy Division and State Dairy Commissioner.

On March 20th, 1911, I commenced work in North Dakota in co-operation with and under the direction of the State Dairy Commissioner of North Dakota, R. F. Flint.

The main intent and purpose of the work was the building

up of the dairy industry of North Dakota, especially along the lines of production.

There had been almost a complete crop failure in Western North Dakota during 1910, and many of the farmers were discouraged and were almost about to leave the State. They had practised dairying to some extent and it was thought by Mr. Flint, that if some encouragement could be given them, and some practical help rendered, they would take hold anew and be more successful in their farming operations.

With this object in view, we visited several communities, held a number of meetings and interviewed a large number of farmers whom we thought would co-operate in some kind of work.

The remaining part of March, and all of April and May, was spent in trying to find some community to take up the work. In this we were not successful and I attribute our failure to the fact, that the farmers were not ready to abandon grain farming in the Western part of the State and go into dairying very extensively. They were not financially able to invest in dairy stock, nor in dairy buildings. Neither did they have feed for live stock. There was such a wide spread feeling of unrest and conditions were so unsettled that we decided to go into some part of the Red River Valley of North Dakota.

This part of the state has never suffered from crop failure. Wheat principally, and other small grains, to some extent has been grown for thirty years. There had been no rotation; the cultivation of the land had been of the shallowest kind, and the soil was filled with noxious weeds and foul diseases.

The one-crop system had been followed so closely that not even meat, eggs and dairy products, sufficient to supply the family needs, were produced on the farm. No one realized the necessity of changing the farming system more than did the farmer. A large majority of them were ready for any kind of farming that would improve the quality of their soils and enable them to make their lands productive.

The man who had owned large tracts had become wealthy and retired. A younger generation was possessing the land, new settlers from other states were coming in and the less successful farmer who had been there for a long time, these men were all ready to receive any assistance that could be rendered them.

Walsh and Pembina Counties were selected as the field in which to operate and the city of Grafton was made the headquarters.

The commercial men of Grafton welcomed the work and offered whatever assistance was necessary to carry on the work. Through their efforts a horse and buggy was furnished by the County Commissioners for my use in visiting among farmers.

It was necessary to do much soliciting; before the work had become well established, farmers were asking for assistance along various lines. The work accomplished might be divided into four lines, Educational, Construction, Dairy Herds, Farm Crops.

The educational work has consisted of holding meetings in various towns of the two counties. Dairy schools, and assisting the State Institute Staff in Institute meetings.

Special work done at Mandt in Fertile township. There existed a local organization of farmers with a membership of fifty. The men were all prosperous, a feeling of co-operation existed and I discovered that they were anxious to know more about farming than they had been able to learn thru practical work. It was arranged to hold an institute meeting twice a month. This has been carried out, fifteen meetings in all having been held. The work was arranged systematically and subjects pertaining to live stock interests constituted the major part of the work.

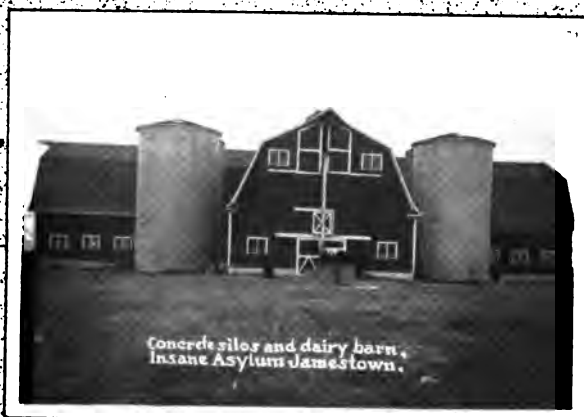
A Co-operative Breeding Association, incorporated under the laws of the State has been fully organized and is now in full working order. A copy of the constitution and by-laws has been sent to you. There is an opportunity to organize at least three more in the very near future in these two counties.

During the months of December and January, a night school was established in Grafton. It was attended by men who were especially interested in dairy farming. A systematic course was given and much good resulted. I believe this should be continued another year and if possible, establish night schools in nearby communities.

A series of two-day schools was held in twelve of the principal towns of the two counties. Subjects pertaining to the dairy industry constituted the program. Much interest was shown. All the meetings were well attended and a livelier interest prevails, as a result of these schools. I am sure there will be a demand for them next year. In all I have attended thirty-nine schools and meetings and have talked to approximately five thousand eight hundred sixty-five people.

Assistance has been given in many instances to farmers who were buying dairy stock, both locally and in other states. Ninety head of grade and purebred Holstein stock were shipped into Grafton from Wisconsin and distributed among the farmers. In every instance, so far as I know, they are giving splendid satisfaction. Three men are keeping daily records of their herds and are getting good results.

The success attained with growing corn has brought to the farmer's attention the need of a silo. During the summer, assis-



tance was given in the construction of six concrete silos. Reports of them have been sent to the office. They are giving splendid satisfaction. I have already received applications from nineteen farmers for assistance, during the coming summer, in the construction of concrete silos, in Walsh and Pembina Counties. Other places are also asking that assistance might be given them.

Two barns have been remodeled and modern stanchions and stalls installed, and including also a system of ventilation.

One of the main problems for the Red River Valley to solve, is that of feed for live stock. As a result of my rather extensive experience in growing alfalfa I have been able to render assistance to a large number who were anxious to grow this food. I have made arrangements with a large number to plant fields of it this coming season. Clover and alfalfa can be grown successfully in the Red River Valley, if only the right methods are used in getting it started.

In conclusion, I wish to report that my work has been intensively interesting, but I have enjoyed it more than any work I have ever done. I have tried to make it a value to the farmers and communities and a credit to the State Dairy Commission and the Dairy Division of the U. S. Department of Agriculture.

My desire is that the work shall continue and be far more successful during the next year than it has been during the past. I believe a good beginning has been made and that good results are sure to follow.

REPORT OF R. C. JACKSON, FEDERAL SCIENTIFIC ASSISTANT,

Co-operating in Walsh and Pembina Counties.

Following the beginning made by Mr. Merrill the silo construction work for 1912 commenced in May. Considerable interest was shown in it and at the end of the season, eight concrete silos had been built,—one 11 x 34, three 12 x 30, two 14 x 36, and two 16 x 40. There were a number of others who intended to build but, owing to the shortness of the season and their late decision, they were unable to do so. These, however, are at the head of the list for next season, and I feel that a much earlier start can be made next year.

There are at present two dairies co-operating with me in the herd tests. One who was working with my predecessor, I have dropped from indifference, and another has never asked to take up the work. My reason for not seeking a continuance was due to the fact that it would be conducted by a renter and would be

more or less unsatisfactory. I will take more co-operation as soon as there is something to work on, but just at present what is needed most is good barns and more good cows.

Three new barns have been built and one remodeled under my supervision this year. The first barn to be completed was that of Dave Desautel, six miles from Grafton. This barn is 36 x 80, with walls of cement block to the floor of the loft. The floors, feed alleys, and mangers of the dairy part are all cement. The stalls for the cows are of the patent type with swinging stanchions. The drains and water system have also been arranged so that the cows may be watered in their stalls and thus avoid being subjected to the severe cold during the winter. Next year the owner expects to build a concrete silo and by so doing will complete one of the best all around barns in Walsh county.

The second, helped to complete a "dual purpose" barn at the North Dakota Institute for the Feeble Minded at Grafton. The building was remodeled last year but the interior arrangement was not undertaken until this season. As in the other barn, all floors, mangers, etc. of the dairy are of cement, and the stalls are the patent adjustable type. This barn is also equipped with a cement silo, the contents of which will be fed this winter during the stormy months.

The last to be completed so far is that of George McCabe on his farm in Pembina County. This is the only one built this season under my supervision that will be entirely devoted to dairying. It is 38 x 75 with a thirty foot loft and a 14 x 37 cement silo at the side. This barn is certainly a credit to the dairy industry of North Dakota. At present the interior is arranged to accommodate 18 head of milk cows, a feed bin, separator room, bull stalls, calf stalls, and a space into which the cattle can be turned for exercise during the stormy weather and thus prevent undue exposure. The stanchions are adjustable (patent) set in wooden frames. The portion of the barn in which the cows are to be milked is cement through-out while the part left for exercising the cattle will have the ground floor well covered with straw. The ventilation will be handled by the "King System" which has been installed with the patent cupola.

The "Fertile Township Breeder's Association", organized by Mr. Merrill, seems in a report given me by Mr. Midgarden, to be doing nicely. They have at present three, three year old bulls for which they paid \$100.00 apiece. To date 125 cows have been bred at \$2.00 and only the cows belonging to members are served.

This is a summary of my work to date. I have attended a few meetings but not enough as yet to make a report of. The work is spreading slowly, but the awakening to the need of dairying, I believe is permanent.

REPORT OF E. B. HEATON, FEDERAL JUNIOR DAIRYMAN,
Co-operating with State Dairy Department, in LaMoure County,
From June to September Inclusive.

Edgeley, N. D. Sept. 28, 1912.

To Mr. R. F. Flint, State Dairy Commissioner for North Dakota,
Bismarck, North Dakota:

I beg to submit a report of the field work conducted for the Dairy Division in LaMoure County, North Dakota, during the months of June, July, August and September. The work began June 18, 1912 and has continued until the present writing.

The main object of the work in LaMoure County was the construction of silos, but advice was given to those wishing it, in regard to the proper location and construction of dairy barns and dairy houses, and also the best means of remodeling such buildings. In addition to the actual work in aiding the farmers to construct the silos a great deal of time was spent in trying to convince others that they should have silos on their farms.

The first silo built was a concrete silo for Mr. J. C. Arduser, who lives half way between Marion and Adrian in the north part of LaMoure County. This silo was constructed according to the plans gotten out by the Dairy Division with monolithic walls, fourteen feet inside diameter and thirty feet in height.

In addition to being the first concrete silo constructed in LaMoure County, Mr. Arduser's silo had the distinction of being the second silo of any kind to be built in the county. This with the fact that the farm of Mr. Arduser is one of the most modern farms in a good farming community has made this silo the attraction for visitors for many miles around. Mr. Arduser having learned the method followed in the construction of his first concrete silo, will construct two others another year on his other farms. As soon as the silo for Mr. Arduser was well started the completion was left to him and his men and assistance given to Mr. Harry Muir, who lives one mile south of LaMoure. This silo when finished was fourteen feet inside diameter and thirty-three and one-half feet in height. An unusual fact about this silo of Mr. Muir is that he dug a foundation pit eight feet in depth, from which he secured all the gravel necessary to make the walls of the complete silo.

During the period when assistance was given to Mr. Muir, assistance was also given to Messrs. Minogue and Smith, living six miles northeast of LaMoure, in locating the silo pits for their respective silos.

Owing to the scarcity of common labor at the season of the year when these silos were built a local mason and his crew was hired. This, of course, made the silos cost more complete but it was a case of do this or else not have a silo and these men wanted silos. The local mason, after using the Dairy Division plan and building the three feet of wall each day thought that he would rather have a set of forms that would keep his men busy for the entire day. After some correspondence he purchased a commercial form and with this finished the silos for Mr. E. M. Minogue and Mr. Andrew Smith. This set of forms were such that six feet could be built each day. For a crew such as a contractor would have this sort of a concrete silo form may always work satisfactory but the form made by the first two men building is much more simple and can be handled by a farmer with the farm help very satisfactorily, while the other could not be handled by his crew to so good an advantage, and is also many times as expensive to secure.

With three silos built near the county seat of LaMoire County by three of the most prominent farmers and men who milk cows along with the rest of the farm work there will be an inducement for more farmers to build another year. A realization that they should break away from a one-crop system was the feature that caused the above mentioned farmers to construct silos and is certain to induce others to do likewise.

About this time the firm of Shiels and Weaver decided to build a concrete silo on their ranch five miles west of Edgeley.

In the interim of waiting for the forms, etc., etc., for the silo for Shiels and Weaver at Edgeley, one week was spent at the town of Carrington in Foster County, in an endeavor to locate some farmer at that place who would wish to build a silo. No success was had at that place due to those people having so few cattle and the ease with which they are able to produce a small grain crop.

Returning to Edgeley, a silo with a diameter of sixteen feet inside and thirty-three feet in height was constructed for Shiels and Weaver. This is the largest silo in the County at the present time and the only one in the west portion of LaMoire County. This silo was placed on a heretofore entirely grain farm with the intention of having some cattle on the ranch from now on. As the first silo in the western part of the county, it is attracting many farmers to see how it was built and to see what silage looks like, for many of the farmers here have never seen silage. As the mecca for so many visitors, this silo will lead many of them to build silos another year.

But one other silo was erected in the county of LaMoire during the present season and that was a wooden silo for a farmer

by the name of Olson living in the northeast portion of the county. Mr. Olson purchased a ready-made wooden silo.

In addition to the work on the silos, advice was given and plans furnished to those who wished to remodel or build new barns for dairy stock. A plan for a combination horse and dairy barn was drawn for Shiels and Weaver at Edgeley. The foundation has been constructed and the frame work will be completed later this season. When complete, this barn will cost about \$2,500.00. Advice was given to Mr. W. H. KaDel living near Edgeley, to Mr. James Good, living near LaMoure, and to Mr. Minogue at LaMoure in regard to the construction of new dairy barns which they expect to build either this fall or next season. Plans were also furnished to Mr. E. M. Minogue and Mr. Andrew Smith for the remodeling of old cow barns on their respective farms near LaMoure. All those who received advice and aid were glad to have the opportunity to receive such. This eager spirit with which the LaMoure County farmer receives advice is one which makes a person glad to work among them, for good results are assured.

The latter portion of the period spent in LaMoure County was occupied by assisting the men who built silos in starting the cutters used in the filling. None of these farmers had ever used an ensilage cutter. The crew used in threshing the small grain for the farmers was secured after a rainy period and when the wheat and oats were too wet to be threshed. The use of the threshing crew of 18 men and six teams for hauling in addition to the two corn binders in the field increases the cost of filling but it is done very rapidly. Two different fillings a few days apart were resorted to in order that we might fill the silos.

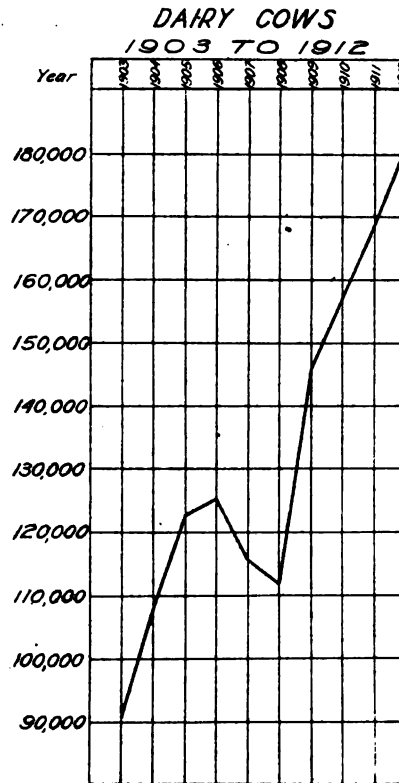
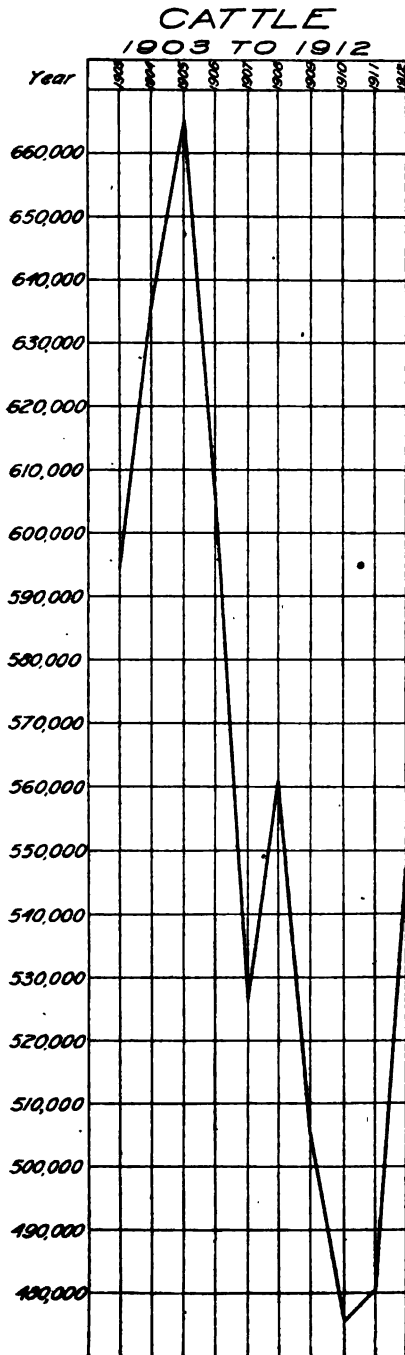
With six silos in LaMoure County and all filled this winter will mean a great incentive for the erection of many other silos in the county another year. Forty-five men have expressed their intention of building silos on their farms another year if they are able to get the assistance necessary in the construction. Some will build without assistance, and others will obtain the assistance of the men who assisted with the construction of the silos this summer. The concrete silo seems to be in greatest favor among the farmers who have seen them and nearly all who intend to build have seen one or another of the concrete silos built, since they are well scattered over the county.

In addition to those who will be able to secure the assistance of the men in the county who are familiar with the construction of the concrete silo there will be enough more men needing assistance to keep one man busy in starting the construction of silos from the time the frost is out of the ground in the spring until

the silo filling period in the fall, is our candid opinion at this time.

There comes a period in all grain growing countries when the yield of grain diminishes in production per acre each year, and then and only then will the farmer do the necessary extra labor connected with the live stock raising in order that the fertility of the land may be restored. With live stock comes a better tillage of the soil and the growing of more corn and the leguminous crops. We believe that LaMoure County is at the beginning of the transitory period and that the time is ripe for the giving of valuable help to the farmer as he undertakes the raising of cattle and swine. With the raising of more cattle comes the milking problem and with the milking problem comes the Dairy Cow. Without the proper advice there is a tendency for the farmer to try and find a dual purpose cow. With the cow, the silo has been found to be the most economical food saver and to secure the silo a great many men need encouragement and assurance or they will not build one. Then is the time when a field man expert in dairy matters is the most needed and most welcome.

In conclusion we can but repeat the statement that we frankly believe that LaMoure County as well as the whole of North Dakota is awakening to the need of more dairying and more silos for the farm. We also believe that no expert help and advice will be more welcome and more needed than in the next two or three years in LaMoure County, and we know that if State or National assistance is given them that the people will welcome such and give all the encouragement that they can to the work.



CATTLE AND DAIRY COWS FROM 1903 TO 1912.

LIVE STOCK IN NORTH DAKOTA.

From 1903 to 1912.

The rapidly changing conditions of our state are illustrated in a comprehensive manner in the charts of the accompanying plate, of the live stock, and cows used for dairying purposes during the 1903: 1912 decade.

The story of greatly increasing numbers of "ranchers" with "bunches" of cattle ranging unoccupied lands in the western half of the state, of homesteaders and farmers in nearly all sections with but a small portion of their land under cultivation pasturing a few cows brought with them in the immigrant car, and their off-spring, on the balance and adjoining vacant tracts, is plainly told in the rapid rise of the numerical line of live stock during 1903-'4 and '5.

The rapid encroachment of the homesteaders on the free range of the ranchers; of greatly reduced native pasture because of increased cultivated area; of good crop-yields, and the adaptation of power farm machinery; of a sudden realization by thousands that what they had previously considered as only adapted for plains pasture being in reality the best of grain lands, and desire to eliminate all labor that interfered with the growing of grain, until the desire almost becomes a mania, is expressed in the downward trend of the numbers of live stock from 664940 in 1905 to 476033 in 1910.

The severely adverse crop conditions of 1910 enforced time for serious thoughtful consideration. It brought a consciousness that man may not live by bread alone, that successful agriculture implies the keeping of live stock with the growing of grain, that returns may be secured from live stock even when grain crops fail.

As a result the Assessor's show an increase from probably the lowest numerical point of live stock in North Dakota, for all coming time, in 1910 to 547291 in 1912.

This finds the figures within 8% of what they were at the beginning of the decade and within 17.6% of the highest point yet attained.

The cattle chart typifies the settlement of any prairie section. First the tendency to cover large areas with live stock on open range, than a one-crop system in which live stock are considered a hindrance, and finally the change to diversified farming.

The figures for cows used for dairying purposes for the same decade illustrates in a way the percentage of immigrants to any locality, who are quite conservative, who build slowly but permanently.

The numbers of cows used for dairying are included in the numbers of live stock so that to them must be credited a large part of the increase in that table.

With the exception of the years 1907 and 1908, when the grain growing enthusiasm even reduced their numbers, cows show a rapid rise.

From 90846 in 1903 they increased to 181759 or a trifle over 100% during the decade.

For comparative data it will be of interest to note here that during the 1900—1910 decade, practically the same period as covered by the live stock data, the population of North Dakota increased 80.2%. That during the 1903—1912 decade the number of farms increased 61.8% and the number of acres under cultivation increased approximately 100%.

SILAGE.

Many requests come to the office regarding silos, silage and the feeding of same. Probably no better short article could be prepared than the one that follows, by A. J. Glover, Associated Editor of Hoard's Dairman, Ft. Atkinson, Wis., presented at the annual convention of the State Dairymen's Association, Mandan, February 15—16, 1912.

"Ensiling is the process of preserving green feeds for live stock, especially cattle, in succulent condition in a silo. The forage which is the result of this process is called silage. The method of keeping feeds in an undried condition was discovered many years ago, but it was not until the middle of the eighteenth century that this method of caring for feeds received serious consideration. In America it is found to be a very satisfactory way of providing green feed for the dairy cow, and that silage is a wholesome and nutritious feed for cattle has been proven beyond all doubt. Silage is not only succulent, but very palatable and held by some to be a tonic, for good dairymen have often stated that they believe silage aids digestion. The dairy cow should have succulent feed the entire year, and the only way to supply her is with silage., for even in summer, pastures dry up and if silage is not provided, dry feed must form the entire ration.

KINDS OF CROPS TO GROW FOR THE SILO.

Many kinds of plants are put into the silo but corn is generally used. It is the practice of some, especially farther south, to mix the corn with some other crop, such as cow peas and soy beans. Nearly all our grasses may be put into the silo—clovers, alfalfa, vetches, oats and rye. Various weeds have been stored

in silos with good results, notably spurry, a most troublesome plant in poor light soils. In order to have a good quality of silage, the plant must contain some sugar, but if it contains too much, the silage is apt to be too sour. The bacteria which live everywhere upon the plants and in the air, act upon the sugar in the plant and lactic and acetic acids are formed. If these acids were not produced, it is very doubtful whether green crops could be preserved in the silo. Clover and alfalfa are used but they make a very strong smelling silage, owing to the decomposition of the protein. Sorghum, while a good plant to grow, if put into the silo, makes a silage containing a little more acid than is desirable. Taking it all in all, corn is the most satisfactory plant grown for ensiling purposes.

THE ECONOMY OF THE SILO.

Ensiling crops is not only a good way to preserve feed, but it is one of the most economical ways of storing it. There is no method of preserving feed that would conserve as much nutriment in a given space as the silo. When we study the corn plant, we find that its nutrients are divided about as follows: One-third in the stalks and leaves, and two-thirds in the corn and cob. The silo permits the saving of the corn plant in the best form and where the silo is not used, the stalks are very often wasted. It has been said that the silo is the poor man's necessity and the rich man's luxury, for by it both gain a better and more independent living. The advantages of silage are not only its economy in saving the entire crop and keeping it in a most acceptable condition, but it furnishes a succulent feed when it is most needed, whether it be in winter or in summer. The acids of the silage act as an appetizer, sharpen the appetite of the animal and tend to keep the digestive tract in a healthy condition. In recent years it has been found that silage is quite as important for summer use as for winter.

SILAGE A WHOLESOME FEED.

For many years, some of our leading milk companies refused to purchase milk and milk products from silage fed cows. It was held that silage produced an inferior grade of milk, but since the better understanding of how to build and fill silos and the proper handling of silage, it has been found that there is no reason to bring any objections to the use of silage. In the early days of the silo they were improperly constructed, corn was cut when immature, it was not properly put into the silo and the silo often built too large for the size of the herd, that is not enough

silage fed each day to keep it in good condition, for it should be remembered that silage is nothing more or less than canned corn, and when exposed to the air it soon spoils. Objections, too, have been raised against silage, that it shortened an animal's life; that is, it caused her to lose her tail and teeth and some even went so far as to state that young people drinking milk produced from silage had a tendency for liking strong drink. These statements have no foundation and are expressions of only people who know nothing about the effects of silage. It can be said that poorly preserved silage is a source of inferior flavored milk, but when silage is properly made and fed, it need give no concern as to the kind of milk it produces.

WHEN TO CUT CORN FOR THE SILO.

As I have stated, Indian corn is the most common crop used in filling silos. It is cut into short lengths, and on account of its short, succulent stems, packs very closely, thereby excluding a large portion of air. The usual time now of cutting corn for the silo is when the most advanced ears are well dented and the lower leaves of the stalk are beginning to dry. Profssor Sheppard in his talk showed that if corn were cut when it began to tassel, it would yield only one fourth as much nutriment as when it was cut at maturity. Corn for the silo can be cut a few days before it is ready to be cut for the shock. Cut at this time it not only gives the largest amount of nutriments but produces the best kind of silage. When corn is cut before it is mature, the silage is invariably of poor quality, a larger percentage of acid develops and it lacks in nutriments. A sour silage is not particularly injurious, yet it is not as good as what is termed sweet silage. When corn is cut too ripe and somewhat too dry to make good silage, a liberal amount of water may be run into the silo when it is being filled. There is little danger of adding too much water. It has been found that when moisture, natural or extraneous, exceeds 75% of the whole, good results are not obtained.

THE SIZE TO CUT CORN.

The finer the green stalk and ears are cut, the closer they will pack in the silo and better will be the quality of the silage. Good silage can be made from corn cut very coarse but it is better to cut it in small pieces. The claim is made by some dairymen that if the green stalks are cut too short the pieces will cause trouble by getting between the cow's teeth. I do not think this objection is well taken, for many dairymen who cut their silage very fine have never experienced any difficulty of

this kind. The modern silage cutter with its blower attachment makes it an easy matter to fill the silo. There are a number of good machines on the market and they can be purchased at reasonable prices. The blower attachment to the common shredder is not large enough or strong enough to elevate the green corn. If a blower is used for elevating the corn into the silo it is necessary to buy a machine for this purpose. The engine to drive the modern silage cutter and blower should be at least 12 horsepower and a 16 horsepower is better. A little too much power is better than not enough. With sufficient motive power and plenty of help it is not difficult to ensile 50 tons of green corn per day. The common chain carrier does not require as much power to run it as a cutter with the blower attachment. If a chain carrier is used a single chain is better than a double one. When a link breaks in a single chain the whole carrier stops, while if a link breaks in the double chain carrier, a smash-up generally follows, before the machine can be stopped. There is some difficulty in getting the chain carrier elevated to the opening in the top of the silo while the pipe of the blower is raised and lowered very easily.

COST OF FILLING THE SILO.

King, of the Wisconsin Station, studied the operation of silo filling on four Wisconsin dairy farms and found the average amount of green fodder placed in the silo, per man, daily, to be as follows:

Farm No.1,—2.96 ton, per 10 hours labor.
Farm No. 2,—2.60 ton, per 10 hours labor
Farm No. 3,—2.45 ton, per ten hours labor.
Farm No. 4.—2.43 ton, per ten hours labor.
Station Farm, 1893,—2.37 tons, per 10 hours labor.

This shows that for each man working 10 hours about two and one-half tons of green fodder were placed in the silo. Estimating labor at 15 cents per hour we have 58.6 as the cost of putting one ton of green corn in the silo.

In my field work I found that the average amount of green fodder placed in the silo per man, daily, as follows:

Farm No. 1,—3.57 tons, per 9 hours labor.
Farm No. 2,—7.34 tons, per 9 hours labor.
Farm No. 3,—5.20 tons, per 9 hours labor.
Farm No. 4,—4.28 tons, per 9 hours labor.
Farm No. 5,—5.41 tons, per 9 hours labor

The average amount of green corn placed in the silo per man in nine hours was 4.7 tons. This shows that modern ma-

chinery has greatly increased man's power in the handling of green corn. It should be remembered that when King, of Wisconsin, obtained his results as to the amount of silage a man could put up in ten hours, that we did not have the modern machinery for filling the silo. This undoubtedly accounts for the great difference in the results of the two reports.

AMOUNT OF HELP NEEDED AND RATE OF FILLING THE SILO.

For the average farm eight men can work to advantage, and they are used in the following places:

- 1 man with machine to cut the corn.
- 4 men and 4 teams to haul the corn to the cutter.
- 1 man to feed the machine.
- 1 man in the silo.
- 1 engineer.

Some farmers put one man in the field to help load, but this is not necessary if a low platform is attached to the wagon.

The man in the silo should keep the leaves, stalks and corn well mixed and he should tramp thoroughly every part of the surface, especially next to the wall. When the silo is full it is better to let the contents settle for a few days and then refill the second time. The silage should be tramped every day for a week after the work of filling the silo is done. Oats may be sown thickly on top of the silage. They will sprout quickly on account of the heat and moisture, thereby forming a matted layer, which helps to preserve the contents of the pit. Four or five gallons of water put on every square foot of surface will hasten the fermentation of the material, which will soon compact itself into a more or less impervious layer.

FEEDING THE SILAGE.

Feeding from the silo may be commenced at once or it may be postponed indefinitely. Unless an ample amount of silage is put up, it is better to feed green corn directly from the field so long as it lasts, than to begin feeding immediately from the silo. The average dairyman feeds from 30 to 45 pounds of silage a day to each cow. This means that an acre of land yielding 12 tons of green corn will supply the average ration with silage into three animals for seven months. The amount of green corn raised per acre, ranges from 6 to 22 tons.

The silage should always be fed after milking on account of the odor that it imparts. If fed before milking it is apt to taint the milk or at least cause it to have an objectionable odor. It

is also important that no silage is left lying around in the barn, or scattered in the feeding alleys. The mangers, alleys, and every part of the barn should be entirely free from silage as soon as the cows have finished eating that portion of their ration. Years of experience and many careful experiments have shown that silage is one of the best milk producing feeds that can be given to cows. If the barn is properly ventilated and no silage left strewn around on the floor to decay and to contaminate the air with its odor, there will be no objections to the feeding of silage. It is the careless and indifferent dairymen who have led many people engaged in the milk business to condemn the silo.

THE ADVANTAGES OF THE SILO.

Many extravagant claims have been made for the silo. It is not uncommon to hear enthusiastic advocates claim that putting corn into the silo doubles its feeding value. There are no facts to prove assertions of this kind, but experiments from various stations have proven that the loss incurred by putting corn in the silo is nearly equal to the loss when put into shocks or racks. It can be said that corn stover deteriorates very rapidly when warm weather begins in the spring, and becomes very unpalatable before it is very old, while the corn put in the silo will remain good for many years. The losses in the silage come when fermentation is taking place immediately after the corn is put into the silo, while the losses in corn stover will continue throughout the year until it becomes a worthless feed.

Dairy cows give better milk when fed upon silage than when fed an equal amount of corn stover. It will be found that a considerable portion of the dry corn stover is not consumed by the cow, but all the silage is consumed. Moreover, stock like silage better than corn stover and will consume more of it, thereby leaving more nutriment to form milk after the wants of the body have been supplied.

CORN SILAGE AND ALFALFA HAY AS A RATION.

Corn silage, as I have said, is a succulent and palatable feed, rich in carbohydrates, and in order to make a good ration with it, it is necessary to have some feed rich in the element protein. Alfalfa Hay is one of our best forage crops. It is not only rich in protein but it contains a large percentage of ash, both of which are important elements for the development of the young and the making of milk. There are no two crops grown that will yield more milk nutrients to the acre than corn silage and alfalfa and no two plants which will supplement each other any better. Professor Fraser of the Illinois Experiment Station, fed alfalfa

and corn silage to two cows. The allowance was about 15 pounds of alfalfa hay and 40 pounds of silage daily. During the summer season some soiling crops were fed. One of the animals produced a little over 8,000 pounds of milk containing 350 pounds of fat. The other produced about 7,000 pounds of milk containing 250 pounds of fat. It is doubtful whether the average cow in this country produces 160 pounds of fat. The results of Professor Fraser's work indicated the feeding value of these two plants and their economic importance to the dairyman. It can be said that where alfalfa cannot be grown, clover, vetch or some other leguminous crop should be provided to take its place, for it is of the highest importance that dairymen grow a large percentage of the feed given to the cow.

In summing up the merits of silage it can be said that it is more palatable throughout the year than dry corn stover. It may be kept for years without deterioration before becoming unpalatable. It is succulent, which makes it a satisfactory substitute for grasses and since pastures are apt to be short in summer, it is well to have a supply of silage to feed during this period. Stock will consume more silage than dry roughage. It acts as a tonic and keeps the cow in a healthy condition. It greatly increases the number of animals that can be kept on a given acreage, for an acre of corn will yield more nutrients than an acre of pasture grass.

CREAMERY SEWAGE.

The purchasing of cream at a cream station in competition with the local creamery and the direct shipment can in many instances be traced to the fact that the creamery was erected some distance from the business portion of the town and therefore not as accessible as the down town buyer or the Railway depot.

Without proper sewer facilities it was necessary to erect the creamery some distance out in order to prevent the odor arising from the sewage becoming a public nuisance. Present day competition requires that the creamery be easy of access and it was the idea of making this possible as well as to provide a means of illminating complaints that frequently arise at plants now established, that the department requested the State Engineer's office to give us their assistance.

The following article and drawings are part of the results. At least three septic tanks have been built after these plans and have been in use for some months with satisfactory results so far as we have been able to learn.

Blue prints giving the correct scale may be had by applying to this or the State Engineer's Office.

SEPTIC TANKS FOR THE DISPOSAL OF CREAMERY WASTES.

"North Dakota possesses comparatively few streams, and the majority of towns are located where no natural means are offered for the disposal of sewage. When towns thus situated increase in size, public health demands that some artificial means be employed to render the wastes of the community inoffensive and harmless. The septic tank method of sewage treatment, as well as various other methods, have been developed to meet these requirements. The septic tank was designed primarily to handle domestic sewage, the composition of the industrial wastes frequently being such as to prohibit the use of the tank. Most North Dakota towns not having a sewerage system, any manufacturing concern which in the nature of its industry is compelled to operate at trade centers, and the waste products of which are objectionable, most provide some way of treating these wastes so that they shall not become a nuisance or a menace to public health. This is the problem that confronts many creamery operators.

Creamery wastes are extremely objectionable and in addition are difficult of treatment, as they contain casine, grease and lactic acid. Casine and grease are practically insoluble, while lactic acid tends to retard any putrifactive action. To the end that some practicable method of treating creamery wastes may be discovered, federal and state dairy departments have employed experts and conducted numerous experiments. Very little information of a definite character is obtainable, but results thus far favor the septic tank method as being the most inexpensive, practical and efficient treatment that will allow a sufficient separation of liquids and solids, and render an effluent sufficiently clear to be filtered or disposed of otherwise.

The accompanying plan of a septic tank, designed for the dairy department, shows the course of the sewage through the different compartments by arrows. Briefly, the septic tank treatment is based on the theory that under favorable conditions, viz., in the absence of light and air and in a comparative state of quiescence, an anerobic action, which is nothing more or less than putrefaction, is fostered. This putrefaction breaks up a part of the solids into liquids and gases. Such solids as are not thus broken up settle in the bottom and form a mass called sludge. The effluent then is ready to receive aerobic action or to be purified, and this can best be done in the presence of light and air. It should be filtered or under favorable local conditions, conducted



Silo foundation ready for concrete.



Inside form raised and reinforcing in place, for second filling.



Hand mixing concrete platform.



Form, cement and reinforcing loaded ready to erect silo.

through field tile to porous subsoil, since the effluent as it leaves the tank still possesses sufficient putrescence to be very malodorous.

Septic tanks should have capacity of at least a four days run, so that sewage entering it will require four days time in reaching the outlet. The tank shown in the plan is large enough to handle 3,000 gallons of sewage per day. The very best of septic tanks under extraordinarily favorable conditions are said to liquify 50% of the solids in ordinary domestic sewage, and from the composition of creamery wastes it is not probable that more than 10% or 15% of the solids will be liquified. The effect of the lactic acid, which retards putrefaction, may be overcome by the addition of a soda ash, which will counteract the acidity. Sludge is apt to accumulate rapidly, as it is estimated that there are from twenty to thirty tons of solids per million gallons of waste, exclusive of all clear water, and as shown in the plan, a number of manholes of easy access must be provided through which sludge may be removed. The accumulation of much sludge will tend to reduce the capacity of the tank and to hasten the passage of the sewage through the different compartments, which must be avoided in order to obtain as complete a separation of liquids and solids as possible. Provision must be made to conduct all clear water wastes around the tank, as clear cold water which has a tendency to retard the action within the tank, besides which a larger tank would be required than if they were eliminated.

In designing this septic tank and in compiling the accompanying tables of information it has been assumed that for each pound of butter produced there is a gallon and a half of wastes, one half gallon of which is clear water.

The sand filter is designed on the basis of 50,000 gallons of sewage per acre per day. The filter bed will require some attention and when any tendency to crust over is observed, the surface should be stirred up with a rake or hoe and after some time it may become necessary to remove the top inch or so of sand and replace it with fresh material. The filter bed itself will be somewhat offensive, but it will purify the effluent sufficiently to permit of its being disposed of in almost any manner without giving cause for complaint.

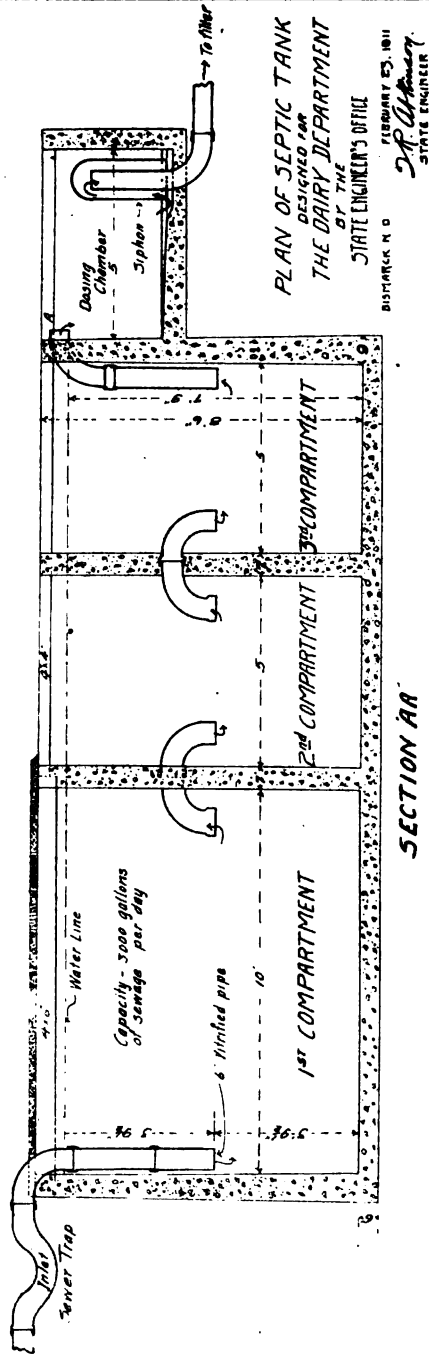
During the winter months the filter bed cannot be used on account of freezing, and the effluent will have to be conducted around it, but this will give rise to no nuisance, since the wastes will freeze soon after leaving the outlet and will doubtless be removed by the spring run-off. This, however, depending on local conditions.

The object of the dosing chamber is to provide means of dumping a considerable quality of effluent onto the filter bed at

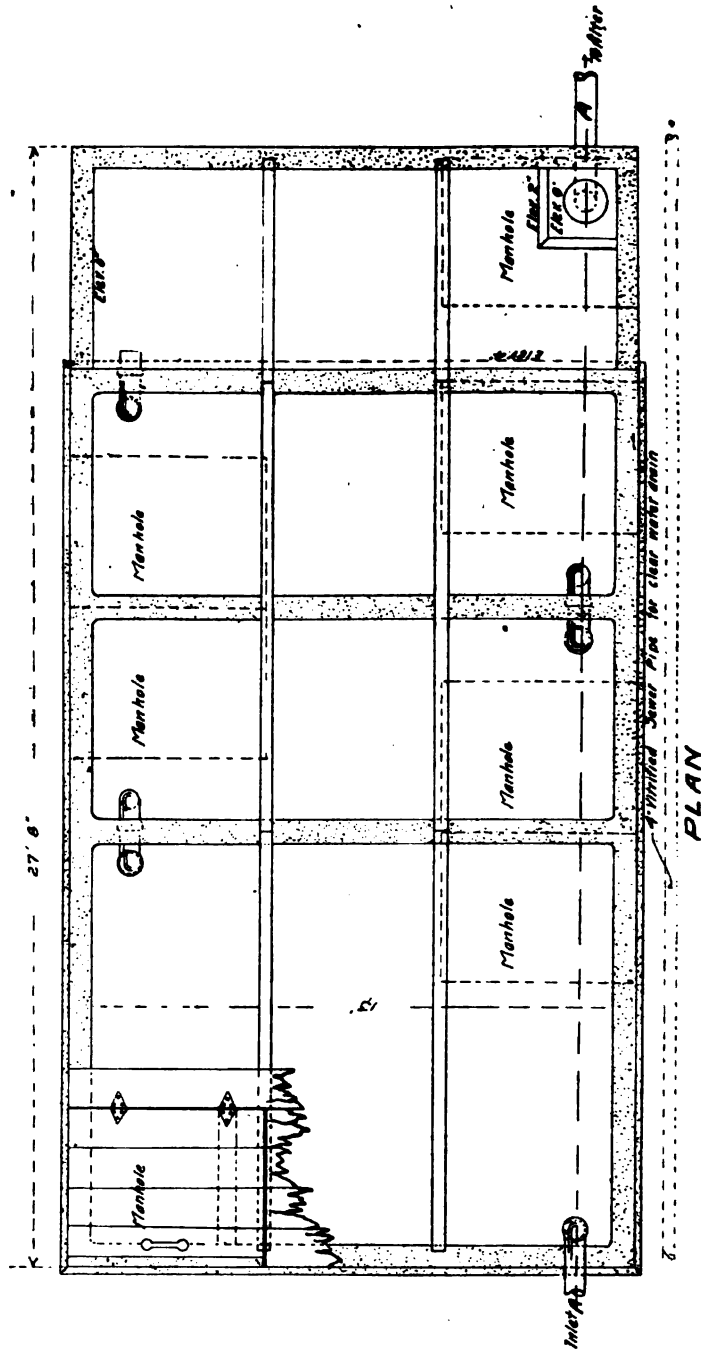
once, so that it will spread over the surface and thus give maximum results. In the event that local conditions make it unnecessary to use a filter bed and the effluent can be conducted through field tile into porous subsoil without danger of contaminating any sources of water supply, the dosing chamber may be entirely omitted and the effluent conducted from the outlet marked "A" on the plan.

When contemplating the construction of a septic tank, the creamery operator should remember that local conditions control to such an extent that each installation presents different problems and fixed rules cannot be laid down. However, a sufficient fall must be allowed from the creamery to the site chosen for the tank, and in all cases the site should be at as great a distance from the creamery buildings as is possible. If it is necessary to use a filter it must be borne in mind that the outlet from the dosing chamber is three feet lower than the outlet from the third compartment to the dosing chamber, and that the filter, which will have to be on the surface of the ground, must be still lower. If a filter is not required the probability of contaminating wells or sources of water supply must be given due consideration. The cover for the tank should be made air tight and a ventilator should be provided extending some distance into the air so that offensive gases may escape without causing a nuisance. This ventilator should be as tall as the building, especially if the tank is located close to the creamery.

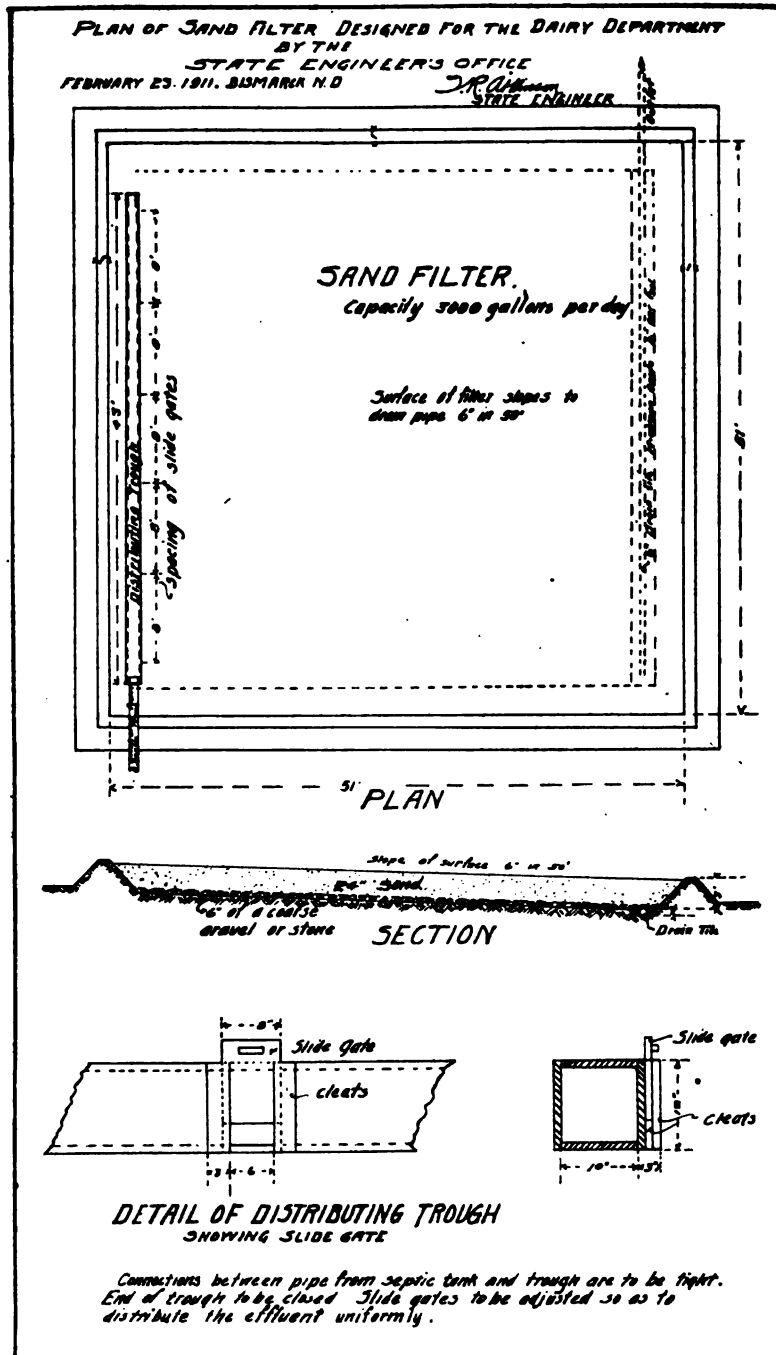
I do not feel justified in recommending the septic tank as an unqualified success, as they are yet more or less of an experiment, and the experience has been that in some instances they have given satisfactory results, in others they have failed. I am satisfied, however, that when it becomes absolutely necessary to treat the wastes of a creamery, that a well installed and intelligently operated septic tank will give at least reasonable results if not entire satisfaction."



ELEVATION PLANS FOR SEPTIC TANK



COVER PLAN FOR SEPTIC TANK



PLAN OF SAND FILTER FOR SEPTIC TANK

DATA CONCERNING SEPTIC TANK.

DESIGNED FOR THE DAIRY DEPARTMENT OF THE STATE
ENGINEER'S OFFICE BISMARCK, NORTH DAKOTA.
Dimensions of Septic Tanks For Different Creamery Capacities.

Daily Butter Production	First Com- partment.			Second Com- partment.			Third Com- partment.			Dosing Chamber.			Thickness of Walls		Thickness of Partitions
	Length	Breadth	Depth	Length	Breadth	Depth	Length	Breadth	Depth	Length	Breadth	Depth	Top	Bottom	
1000 lbs.	9	7	6 1	9	3 6	6 1	9	3 6	6 1	9	3 6	3 3	4	6	4
2000 lbs.	12	9	6 8	12	4 6	6 8	12	4 6	6 8	12	4 6	3 3	4	8	6
3000 lbs.	13	10	8 6	13	5	8 6	13	5	8 6	13	5	3 3	7	9	7

BILL OF MATERIAL FOR SEPTIC TANKS OF DIFFERENT SIZES.

	1000 lbs.	2000 lbs.	3000 lbs.	1000	2000	3000
Daily Butter Production						
Concrete (CU. YDS.) 1:3:4	960	17.00	30.00	1.8	2.5	3.00
Sand (CU. YDS.)	5.32	9.39	16.65	1.03	1.42	3.0
Gravel (CU. YDS.)	6.00	12.49	22.02	1.40	1.91	1.71
Cement (BBLs.)	12.64	22.25	39.18	2.50	3.40	2.31
Vitrified Sewer Pipe Elbows	6 7-4 in.	7-4 in.	7-6 in.	1-4 in.	1-4 in.	4.08
Vitrified Sewer Pipe Wyes	1-4 in. x 4 in.	1-4 in.	1-4 in. x 6 in.	1-4 in.	1-4 in.	1.6 in.
Siphon.	1-4 in.	1-4 in.	1-6 in.	1-4 in.	1-4 in.	1.6 in.
Plank for Tank Cover	400 ft.	640 ft.	970 ft.	90 ft.	130 ft.	168 ft.
Timbers for supports	56 ft. 4x4	40 ft. 4x6	48 ft. 4x6	10 ft.	12 ft.	15 ft.
Handles for Manhole Covers	7 pair	40 ft. 4x4	48 ft. 4x4	1	4x4	4x4
Flanges for Manhole Covers	7 pair	7 pairs	7 pair	1	1	1
Galvanized Iron gutter pipe	4 in. 20 ft.	4 in. 20 ft.	4 in. 20 ft.	1	1	1
Sewer Pipe Trap	1	1	1	1	1	1

*The Material Noted Under These Columns May be Deducted from the Corresponding Columns in case that it is desired to omit the Dosing Chamber.

ESTIMATED RATE OF SLUDGE ACCUMULATION IN INCHES.

Daily Butter Production.	One Week Compartment.			Two Weeks Compartment.			Three Weeks Compartment.			Four Weeks Compartment.		
	1st.	2d.	3d.	1st.	2d.	3rd.	1st.	2d.	3d.	1st.	2d.	3d.
1000 lbs.	1 1/4	1/4	1/4	2 1/4	1	1/4	3 3/4	4 1/4	5/4	5	2	3/4
2000 lbs.	1 1/2	1/2	1/2	2 3/4	1	1/2	4 1/4	1 1/4	5/4	5 1/2	2	3/4
3000 lbs.	1 3/4	3/4	3/4	3 1/4	1 1/4	1 1/4	5 1/4	2 1/4	7/4	7	3 1/4	1

* inches.

DEPTH TO WHICH SLUDGE MAY BE ALLOWED TO ACCUMULATE.

DAILY BUTTER PRODUCTION.

1000 lbs.

2000 lbs.

3000 lbs.

PERMISSABLE DEPTH OF SLUDGE ACCUMULATION.

1 ft. 00 in.

1 ft. 4 in.

1 ft. 8 in.

DATA CONCERNING SAND FILTER.

Size of Filter Base on 50,000 Gallons Per Acre, Per Day.

DAILY BUTTER PRODUCTION	Square Ft. of Surface.	No. of Feet Square.	Depth in Inches.
1000 lbs.	871	30	30
2000 lbs.	1742	42	30
3000 lbs.	2613	51	50

CITY MILK REGULATION.

Among the provisions of a dairy act passed by the ninth legislative session, and still in force, is the following:

(City Councils Provide for Inspections of Milk and Dairy Herds.) "The council of any city or incorporated town may by ordinance provide for the inspection of milk and of dairies and dairy herd kept for the production of milk within its limits, and issues licenses for the sale of milk within its limits, and regulate the same, and may authorize and empower the board of health to enforce all laws and ordinances relating to the production and sale of milk and the inspection of dairies and dairy herds producing milk for sale within such city."

A number of the larger cities have adopted ordinances relating to the production of their milk and cream supply and, as the population of others increases, the subject is brought up for active discussion.

For the benefit of these the ordinance of the city of Bismarck is submitted as a guide:

Ordinance No. 212.—An ordinance to provide for the inspection of milk, dairies and dairy herds, and to license the sale and disposition of milk and cream in the city of Bismarck, North Dakota.

Be it ordained by the city council of the city of Bismarck, North Dakota.

Sec. 1.—That no person shall dispose of milk or cream within the city of Bismarck to be consumed there without first having obtained a license therefore as hereinafter provided.

Sec. 2.—Any person desiring to secure a license as provided in section 1 shall make an application therefore in writing to the health officer of this city setting forth therein their residence, and the number of cows in his herd, or the name and place of residence of the person, or persons, from whom he desires to obtain his milk or cream.

Sec. 3.—The filing of the application provided for the next preceeding sections shall authorize the applicant to continue the selling or disposing of milk if he shall, at the time of filing of said application, be engaged in the selling of or distribution of milk until the board of health takes action upon and either issues a license to the applicant or refuses to do so.

Sec. 4.—Such applicants shall pay to the city treasurer the sum of two dollars as an annual license fee and shall attach the treasurer's receipt for same to his application for a license. Provided, however, that persons keeping one cow for their own use and selling only the surplus milk from said cow, shall only be

required to pay a license fee annually of one dollar. All licenses shall expire September 1st of each year.

Sec. 5—It shall be the duty of the board of health to inspect, or cause to be inspected, the dairy cows of the applicant or the cows of the person or persons from whom the applicant desires to obtain milk or cream, and also the barn and premises where such dairy herd is kept, and all vehicles, receptacles, utensils and other instrumentalities used in handling milk or cream that may be sold under license as herein provided.

Sec. 6—No fee shall be charged for such inspection of cows, excepting where it be had without the city of Bismarck. In such case the applicant for license shall pay the actual expenses incurred by the board.

Sec. 7—Upon the report of the health officer showing compliance of the applicant of all the terms and provisions of this ordinance in respect to such dairy cows and the milk or cream produced therefrom and the premises and instrumentalities used in connection with such dairy, and upon the presentation by the applicant of a receipt showing the payment of the license fee required to the city treasurer, the board of health shall authorize the issuing to said applicant of said license, as herein provided.

Sec. 8—The board of health shall have supervision and control of the license and regulation of the sale of milk or cream and the inspection of dairies and dairy herds under the provisions of this ordinance, and they shall have the authority to appoint such inspectors and assistants as they may require in carrying out and enforcing the provisions and terms of this ordinance. Said appointees to be confirmed by the city council.

Sec. 9—In order to carry out the provisions and purposes of this ordinance the health officer and all inspectors and assistants appointed by the board of health have the right at any time to enter upon the premises of any person licensed under the provision of this ordinance to examine or inspect the dairy or dairy herd and milk or cream of such license. Any refusal of the part of licensee to permit such inspection and examination as herein provided shall subject this license to immediate revocation.

Sec. 10—The health officers and inspectors shall have authority to stop and inspect any vehicle used in delivering milk or cream, or to inspect any place where milk or cream is sold or to appropriate a sample on tendering the market value of the same for the purpose of enforcing the provisions of this ordinance.

Sec. 11—Each licensee shall cause the number of his license to be conspicuously placed on all vehicles used by him in the sale or distribution of cream or milk within the limits of the city of Bismarck and all licensees who sell milk or cream from vending places shall keep their licenses posted in a conspicuous place upon the wall of such vending place.

Sec. 12—No person shall sell or dispense any unclean or adulterated milk or cream for sale or distribution within the city in an overcrowded condition, or in barns which are not properly ventilated or lighted, or which are in an unclean condition from any cause, nor shall any person draw or suffer to be drawn, milk from animals who are themselves in an unclean condition, or from animals which are diseased, or from animals fed on unwholesome food or water, nor shall any person keep any milk or cream intended for sale or distribution in unclean vessels nor in any unclean building, in any room used for a sleeping compartment, or for any other purpose incompatible with the proper preservation of the cleanliness of the milk or cream of the vessels wherein it is kept, and all milk or cream thus kept or produced is hereby declared to be unclean.

Sec. 13.—The words "Adulterated Milk" as used in this ordinance mean all milk containing less than thirteen per cent milk solids, all milk containing less than $3\frac{1}{2}$ per cent of butterfat, or milk drawn from animals fifteen (15) days before or five (5) days after parturition, and all milk to which has been added any foreign substances.

Sec. 14.—The words "Adulterated Cream" as used in this ordinance, mean all cream containing less than 18 per cent of butterfat and all cream to which has been added any foreign substance whatever.

Sec. 15—No person shall sell or dispense milk or cream drawn from cows which had not been tested for tuberculosis by said inspector or by a qualified veterinarian, approved by the board of health, using what is known as the tuberculin test. Each cow tested shall be marked with a tag which shall indicate whether such animal is sound and fit for dairy purposes. No cow which is found to be tuberculous by said tuberculin test shall be used to supply milk or cream to be sold or dispensed in this city.

Sec. 16—Any person violating any of the provisions of this ordinance shall be punished upon conviction, by a fine of not less than \$5.00 or more than \$50.00, or by imprisonment of not less than five days or more than thirty days, and his license shall thereupon be subject to forfeiture.

Sec. 17—This ordinance shall take effect and be in force from and after its passage, approval and publication.

Passed May 18, 1908.

Approved June 3, 1908.

In compliance with a request from the office, Alfred Larson, in charge of the state Public Health Laboratory, acting as milk inspector under the supervision of Dr. F. R. Smyth, city health officer, submitted the following explanation of the detail method of carrying on the provisions of the Bismarck ordinance.

"The preparatory milk work in Bismarek, begun in the summer of 1911, consisted in publishing the city milk ordinance in pamphlet form and giving a copy to the producers and others interested in obtaining a clean milk supply. Literature dealing with bovine tuberculosis and different phases of milk production was distributed while visiting the various dairies and at the same time instructions were given as to the application of the Federal Dairy Department score card.

This score card is practically indispensable in inspection work because of its simplicity and educational value. The importance of the tuberculin test, the covered milk pail, the washing of the cow's udders before milking, the cooling of milk and its proper handling during delivery are duly emphasized.

When the dairymen were convinced that a tuberculosis free herd will sell for more than a sick herd, that every step recommended in the card can be proven by bacteriological methods to be of value, and that besides all milk dealers were to be judged by the same standards, they became willing to follow out the recommendations of the score card. Reports giving the daily score, bacteriological count, fat tests of each dairy were published in the daily paper from time to time and this acted as an additional incentive to improvement.

Since milk inspection work was begun the number of cows tested by the U. S. Bureau of Animal Industry, working in co-operation with the city up to date is 293. Of these 11 were found to be tuberculous. The score card system was introduced in the summer of 1911. The improvement in score a year later is shown in the following table:

	August 1911	August 1912
Dealer A	29 points.....	62 points
Dealer B	66 1/2 points.....	78 points
Dealer C	47 points.....	55 points
Dealer D	75 points.....	83 points
Dealer E	34 points.....	64 points

Dealer C has recently installed a more complete steam sterilizing and cleaning outfit so that now his score will be above 70 points.

The fat tests and specific gravity determinations should protect consumers against too close skimming or diluting of milk or cream.

In our work it was speedily realized that unless the inspector visits the dairy no improvement results.

The elimination of tuberculosis cattle, the introduction of the covered milk pail, the installation by two of the dealers of complete sterilizing and cleaning apparatus, have been some of the results achieved by the milk inspection department.

The following is a copy of the score card referred to by Mr. Larson.

DETAILED SCORE.

Equipment	Score.		Methods.	Score.	
	Perfect.	Allowed.		Perfect.	Allowed.
Cows.			Cows		
Health	6	-----	Cleanliness of cows.....	8	-----
Apparently in good health.....1			Stables.		
Cleanliness of stables.....	6	-----	If tested with tuber-		
cullin once a year			Floor.....2		
and no tuberculo-			Walls.....1		
sis is found, or			Ceiling and ledges.....1		
if tested once in			Mangers and par-		
six months and all			titions.....1		
reacting animals			Windows.....1		
removed.....5			Stable air at milking		
(If tested only once			time.....	6	-----
a year and reacting ani-			Freedom from dust.3		
mals found and re-			Freedom from odors.3		
moved, 2.)			Barnyard clean and		
Comfort.....	2	-----	well drained.....	2	-----
Bedding.....1			Removal of manure daily		
Temperature of sta-			to field or proper pit.	2	-----
ble.....1			(To 50 feet from sta-		
Food (clean and whole-			ble, 1.)		
some).....	2	-----	Milk Room.		
Water.....	2	-----	Cleanliness of milk room		
Clean and fresh.....1			Utensils and Milking	3	-----
Convenient and abun-			Care and cleanliness of		
dant.....1			utensils.....	8	-----
Stables			Thoroughly washed.2		
Location of stable.....	2	-----	Sterilized in live steam		
Well drained.....1			for 30 minutes.....3		
Free from contam-			(Placed over steam		
inating surround-			jet, or thoroughly		
ings.....1			scalded with boiling		
Construction of stable.....	4	-----	water,.....2		
Tight, sound floor			Inverted in pure air.3		
proper gutter;.....2			Cleanliness of milking.....	9	-----
Smooth, tight walls			Clean, dry hands.3		
and ceiling.....1			Udders washed and		
Proper stall, tie, and			dried.....6		
manager.....1			(Udders cleaned with		
Means of light: Four			moist cloth, 4; cleaned		
sq. ft. of glass per			with dry cloth at least		
cow.....	4	-----	15 minutes before milk-		
(Three sq. ft., 3; 2			ing, 1.)		
sq. ft., 2 sq. ft., 1.			Handling the Milk		
Deduct for uneven dis-			Cleanliness of attendants		
tribution			in milk room.....	1	-----
Ventilation: Automatic			Milk removed immedi-		
system.....	3	-----	ately from stable.....	2	-----
Adjustable windows.1			Prompt cooling (cooled		
Cubic feet of space for			immediately after		
cow; 500 to 1,000			milking each cow).....	2	-----
feet.....	3	-----	Efficient cooling; be-		
(Less than 500 feet,			low 50° F.....	5	-----
2; less than 400 feet, 1;			(51° to 55°, 4; 56°		
less than 300 feet, 0;			to 60°, 2.)		
over 1,000 feet, 0.)			Storage; below 50° F.....	3	-----
Utensils.			(51° to 55°, 2; 56°		
			to 60°, 1.)		

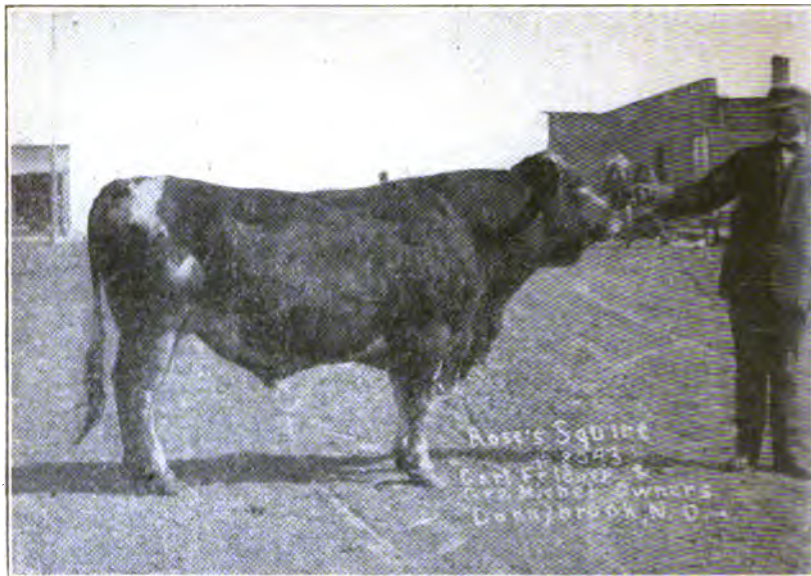
DETAILED SCORE—Continued.

Methods.	Score		Equipment	Score	
	Perfect	Allowed		Perfect	Allowed
Construction & condition of utensils	1	.....	Transportation; iced in summer	3	.....
Water for cleaning.....	1	.....	(For jacket or wet blanket, allow 2; dry blanket, or covered wagon, 1.)		
(Clean, convenient, and abundant.)					
Small-top milking pail.....	3	.....		
Facilities for hot water or steam	1	.....		
(Should be in milk house, not in kitchen.)					
Milk cooler	1	.....		
Clean milking suits.....	1	.....		
Milk Room					
Location of milk room..	2	.....		
Free from contaminating surroundings	1	.....		
Convenient	1	.....		
Construction of milk room	2	.....		
Floor, walls, and ceiling	1	.....		
Light, ventilation, screens	1	.....		
Total	40	.....	Total	60	.....

Equipment + Methods..... = FINAL SCORE

NOTE 1.—If any filthy condition is found, particularly dirty utensils, the total score be limited to 49.

NOTE 2.—If the water is exposed to dangerous contamination, or there is evidence of the presence of a dangerous disease in animals or attendants, the score shall be 0.



GUERNSEY SIRE



GUERNSEY COWS

GUERNSEYS IN THE VICINITY OF DONNYBROOK, WARD COUNTY

CREAMERY REPORTS FOR THE YEAR ENDING JUNE 30, 1912.

Location	License No.	Lbs. Milk Received.	Lbs. Cream Received.	Pounds Butter Fat	Pounds Butter Made	Total Money Paid Patrons.
Youngtown,	1	1,881,423	97,824	95,038	117,517	27,196.94
New Salem,	2	1,056,575	159,953	81,693	96,626	24,327.05
Bluegrass,	3	599,866	140,920	62,558	76,028	17,559.51
Rosebud,	4	530,818	129,080	56,503	67,587	15,009.25
Hebron,	5	.....	45,865	230,848	27,382	26,234.09
Heilbron,	6	.....	181,872	38,840	48,008	10,026.28
Ray,	13	.....	103,448	28,255	34,960	6,516.91
Jawson,	15	.....	420,199	205,994	146,889	30,749.30
Steele,	16	.....	247,442	72,208	87,607	17,108.96
Penn,	27	.....	88,443	22,528	28,904	5,095.70
Valley City,	30	.....	154,300	43,686	52,423	11,176.10
LaMoure,	32	.....	436,722	112,747	135,775	29,495.75
Medina,	33	.....	260,962	80,539	91,468	19,587.71
Hannover,	34	154,170	141,400	39,270	46,480	9,147.80
Center,	35	.....	152,689	44,062	54,495	12,018.72
Kneer's Cry, Fargo,	38	.....	201,530	64,320	70,495	13,964.35
Kathryn,	45	.....	305,726	72,616	84,731	17,138.44
Grand Forks,	54	.....	294,610	89,094	110,322	25,676.11
Ellendale,	55	.....	204,116	58,040	68,662	14,593.33
Jamestown,	57	.....	146,250	44,050	53,044	5,462.70
Gackle,	60	.....	273,759	82,817	94,820	15,130.84
Grafton,	64	.....	58,706	14,736	17,041	3,878.42
Steele,	67	.....	454,109	132,962	153,963	32,976.91
Glen Ulen,	70	.....	59,775	18,540	22,500	5,074.00
Lidgerwood,	79	.....	101,550	28,924	34,833	6,955.87
Galesburg,	82	.....	332,265	98,560	118,862	24,738.56
Ashey,	84	.....	114,908	30,991	36,228	7,878.85
Dickinson,	91	.....	591,228	177,344	213,670	47,858.15
Kneer's Dairy, Fargo,	95	.....	258,675	52,280	43,313	12,113.09
Strasburg,	98	.....	34,719	10,272	12,338	3,519.00
Rowesmont,	100	.....	100,331	31,590	40,497	7,766.08
Wales,	102	.....	131,608	43,569	51,634	10,206.55
Carpio,	103	.....	261,292	8,781	10,007	1,733.40
Neche,	105	.....	38,273	70,222	71,546	14,533.67
Denhoff,	106	.....	61,315	21,010	24,581	6,610.27
Kenmare,	108	.....	105,563	27,939	30,554	7,652.83
Michael Cr., Judson,	110	.....	67,429	18,698	22,435	4,596.86
Bowman,	112	.....	.....	.....	.....	.....

CREAMERY REPORTS FOR THE YEAR ENDING JUNE 30, 1912. —Continued

Location	No.	Milk	Cream.	Butterfat	Butter Made	Money Paid Patrons.
Driscoll,	116	.....	217,553	67,485	76,111	15,362.49
Vainalla,	119	.....	66,807	22,460	26,062	4,983.16
Fargo Ice Cream & Dairy Company,	122	.....	445,282	127,848	164,199	36,406.48
Richardton,	123	.....	199,623	57,454	60,543	14,951.14
Washburn,	126	.....	328,222	104,702	118,314	23,660.77
Marion,	128	.....	.....	.....	.....	.....
Powers Lake,	133	.....	57,542	18,507	22,429	5,120.85
Spring Brook,	135	.....	110,556	32,493	40,114	7,662.82
Hensler,	136	.....	96,015	34,294	39,710	7,935.48
Rantry,	137	.....	88,033	26,207	30,435	6,322.57
Yucca,	138	.....	129,748	35,081	42,771	8,393.81
Baldwin,	139	.....	123,579	42,391	53,501	9,938.74
Rhein,	141	.....	246,184	66,710	80,965	16,764.57
White Earth,	142	.....	60,282	16,951	20,932	3,947.04
Hankinson,	144	.....	306,120	76,872	92,424	17,934.07
Burnsrad,	145	.....	91,195	30,541	36,784	7,723.00
Nesbit, .....	.....	.....	56,264	13,662	15,280	3,451.66
Miscellaneous, .....	.....	.....	624,278	139,210	156,135	32,915.19
Total, .....	.....	4,222,852	10,496,530	3,335,261	3,574,462	801,997.97



Lowering section
of inside form.



Showing scaffolding,
door form, and meth-
od of raising concrete
by hand.



Showing commer-
cial form, permitting
the erection of six
feet per day.



Nearing the top,
concrete being
elevated with horse.

CREAM STATION REPORTS FOR YEAR
ENDING JUNE 30, 1912.

Town.	Lbs. Butterfat.	Value.
Abercombie,	25,350.49	4,124.38
Adrian,	88.45	35.06
Alfred,	1,140.64	227.21
Alice,	869.19	222.57
Anamoose,	31,274.00	7,987.89
Anselm,	7,736.87	3,886.35
Arthur,	2,608.00	662.00
Arvilla,	1,267.87	279.45
Ashley,	147,075.43	37,275.41
Ayr,	489.56	122.79
Bartlett,	616.48	146.19
Belmont,	7,061.95	1,964.53
Bentley,	2,441.00	649.87
Berlin,	93,579.00	1,777.81
Balfour,	17,476.00	2,426.79
Berthold,	3,466.48	833.41
Berwick,	2,878.64	712.74
Bisbee,	1,443.16	337.11
Blaisdell,	2,178.73	555.43
Bowdon,	18,107.00	4,604.44
Braddock,	2,792.00	698.00
Brampton,	7,213.4	555.37
Brittin,	11,137.00	2,972.15
Brocket,	147.00	37.02
Buttsville,	286.86	77.64
Buxton,	10,446.12	1,941.53
Calio,	653.59	150.17
Calvin,	1,137.00	265.87
Cando,	3,198.27	685.82
Carrington,	1,461.00	336.03
Cathay,	3,668.00	953.68
Cleveland,	13,118.27	3,083.49
Clyde,	46.40	19.08
Coleharbor,	3,311.00	860.86
Coldwater,	2,953.00	679.19
Colfax,	19,080.00	4,951.96
Coulee,	162.40	38.28
Danzig,	15,678.00	3,958.03
Davenport,	2,864.05	753.45
Dazey,	4,061.00	1,092.81
Delamere,	49,711.08	12,278.18
Derrick,	203.08	51.73
Dickey,	423.55	115.66
Dogden,	4,929.00	910.26
Donnybrook,	3,657.00	2,652.81
Doyon,	8,213.13	2,013.44
Drake,	6,903.00	1,497.64
Dresden,	5,709.20	1,429.68
Dunseith,	2,715.00	678.75
Easby,	3,298.00	762.49
Edgeley,	23,374.00	6,175.39
Edmore,	11,292.49	2,556.82
Englevale,	3,844.65	933.77
Enger,	1,123.00	224.60
Epping,	953.04	212.50
Fairmount,	7,055.30	1,892.47
Fessenden,	1,984.00	446.88
Fingal,	3,587.00	812.05
Forbes,	51,024.58	12,303.10
Fordville,	312.77	72.32
Fort Rice,	266.00	63.84
Freda,	713.90	176.64
Fredonia,	92,990.00	23,274.93
Gackle,	44,223.85	11,724.95
Garrison,	48,680.03	12,254.80

REPORT OF DAIRY COMMISSIONER

CREAM STATION REPORT FOR YEAR

ENDING JUNE 30, 1912—Continued

Town.	Lbs. Butterfat.	Value.
Goodrich,	50,635.00	12,330.95
Grand Rapids,	442.37	167.58
Granville,	11,182.00	2,406.90
Great Bend,	8,220.00	1,862.20
Guelph,	301.40	56.46
Hague,	35,055.8	8,671.58
Hamilton,	5,421.68	1,320.98
Hampden,	1,305.04	285.91
Hansboro,	1,766.00	406.18
Hartland,	1,056.74	262.74
Harvey,	1,183.00	269.22
Hatton,	21,896.65	5,465.94
Havana,	19,061.50	4,829.13
Hazelton,	11,436.00	3,839.00
Heaton,	4,524.00	1,209.56
Hensel,	25,741.00	3,896.19
Holmes,	15,673.00	1,890.93
Huff,	6,900.00	1,858.74
Hurdsfield,	23,888.59	6,014.14
Inkster,	5,260.60	1,246.80
Joliette,	5,988.98	1,496.05
Jud,	679.00	183.33
Judson,	5,055.00	1,314.30
Kelleys,	3,840.02	906.26
Kempton,	1,052.00	241.96
Kintyre,	13,381.40	3,133.28
Larimore,	12,703.73	3,138.61
Lawton,	4,621.80	1,012.98
Lehr,	84,220.14	21,075.34
Leith,	2,285.2	578.35
Lidgerwood,	2,483.00	876.13
Lignite,	800.18	175.40
Linton,	159,476.14	38,670.16
Lisbon,	10,955.83	2,569.13
Litchville,	22,903.00	4,930.62
McCauna,	5,202.00	1,214.93
McClusky,	25,985.00	6,209.58
McLeod,	7,180.38	1,865.81
McKenzie,	918.00	238.68
Mandan,	423.00	80.37
Mantador,	5,015.91	1,250.20
Manvel,	255.95	54.24
Max,	4,924.12	1,174.74
Medberry,	2,004.35	508.39
Mercer,	5,198.00	1,299.50
Merricourt,	1,574.50	396.28
Michigan,	4,293.04	991.46
Milnor,	51,909.14	14,844.69
Milton,	3,057.22	837.93
Minto,	33.80	6.76
Monango,	24,746.7	5,892.96
Montpeller,	2,223.00	578.00
Mooreton,	2,165.95	524.60
Mylo,	2,630.72	487.67
Napoleon,	101,518.99	24,746.30
New England,	1,322.00	343.10
New Leipzig,	2,559.10	619.77
New Rockford,	8,129.64	2,268.30
Nome,	5,808.21	1,683.03
Northwood,	8,936.05	2,020.56
Oberon,	1,747.00	419.28
Oriska,	2,305.55	653.28
Osnabrock,	8,121.14	1,893.09
Overley,	1,244.12	322.53
Page,	533.00	132.72

CREAM STATION REPORT FOR YEAR
ENDING JUNE 30, 1912—Continued

Town.	Lbs. Butterfat.	Value.
Palermo,	7,326.60	1,836.31
Pekin,	219.96	50.66
Perth,	1,780.00	427.80
Pettibone,	2,940.00	735.00
Pilot,	1,919.62	437.23
Pingree,	2,895.35	586.30
Pisak,	5,598.37	1,409.88
Plaza,	2,551.00	629.22
Portland,	3,782.00	983.32
Raleigh,	3,590.1	893.90
Regan,	1,394.00	320.62
Reynolds,	4,332.26	1,073.54
Regent,	17,999.10	4,333.10
Rock Lake,	3,529.00	846.26
Rogers,	274.00	54.80
Rolla,	12,149.14	3,098.61
Rolette,	1,515.92	354.02
Ross,	3,877.61	879.33
Rutland,	17,433.90	4,557.37
Sanborn,	1,368.12	350.09
Sheldon,	1,046.38	259.41
Shields,	2,483.00	599.74
Steele,	279.00	58.59
St. Thomas,	2,262.46	526.54
Stanley,	15,965.21	3,956.70
Stirum,	5,582.00	1,339.86
Strasburg,	92,618.3	23,166.93
Streeter,	54,039.00	13,783.25
Sweetbriar,	9,774.00	2,695.59
Sykeston,	12,320.00	2,498.74
Straubville,	11,562.00	2,633.85
Tagus,	1,664.50	436.56
Tappen,	17,444.00	4,318.82
Temvik,	640.00	128.00
Tower City,	9,282.52	2,167.55
Turtle Lake,	6,373.00	1,593.25
Tuttle,	7,662.00	1,752.26
Underwood,	26,814.97	6,819.74
Union,	217.64	43.48
Velva,	1,723.00	413.52
Venturia,	78,590.17	19,064.24
Verona,	1,929.62	657.92
Voltaire,	3,805.00	980.30
Walum,	1,876.02	465.48
Wheelock,	2,261.80	512.40
Wing,	5,589.00	1,341.86
Wilton,	65,903.00	16,115.29
Wishek,	84,489.13	22,046.56
Woodworth,	6,470.13	1,617.50
Wyndmere,	13,087.17	3,371.22
Ypsilanti,	285.52	78.07
Zeeland,	79,471.80	19,916.03
Miscellaneous,	470,109.00	128,430.29
Total	2,917,537.67	\$ 708,832.22

REPORT OF DAIRY COMMISSIONER

CREAMERY REPORTS FOR THE YEAR ENDING JUNE 30, 1911.

Location of Creamery.	No. License	Lbs. Milk Received.	Lbs. Cream Received.	Pounds Butterfat.	Pounds Butter Made	Total Money Paid Patrons.
Youngtown,	1	2,155,913	78,673	83,808	102,602	\$ 24,887.06
New Salem,	2	1,100,017	98,860	62,857	77,502	17,830.94
Bluegrass,	3	595,506	117,531	53,102	63,990	13,380.16
Rosebud,	4	585,716	76,545	42,100	50,533	10,389.70
Hebron,	5	.....	239,545	65,772	70,386	15,529.02
Helbron,	6	.....	139,018	39,100	47,200	9,115.67
Ray,	7	.....	53,073	15,025	19,215	3,721.42
Judson,	14	33,841	98,721	24,734	29,995	6,417.00
Dawson,	15	.....	374,237	102,602	135,684	62,611.02
Steele,	16	.....	267,077	76,956	92,800	17,535.00
Wyndmere,	19	.....	115,129	35,430	40,570	8,780.47
Penn.,	27	.....	85,521	20,888	25,707	4,619.68
Valley City,	30	.....	135,200	36,547	44,549	8,963.50
LaMoore,	32	.....	488,007	125,057	150,163	23,302.27
Medina,	33	.....	79,174	23,897	27,203	5,408.25
Center,	34	534,846	63,490	34,472	41,978	7,498.85
Haover,	35	.....	133,693	39,160	43,909	8,399.48
Kner's Fargo,	38	.....	283,182	86,771	102,465	21,035.76
Kathryn,	45	.....	93,702	19,662	23,594	6,473.81
Towner City,	46	.....	22,052	6,474	7,627	1,438.58
Oberon,	40	.....	80,218	19,622	22,654	4,667.96
Grand Forks,	54	.....	173,807	45,967	55,893	11,539.79
Ellendale,	55	.....	313,864	37,049	45,087	8,294.70
Jamestown,	57	.....	253,376	71,912	87,184	17,181.71
Gackle,	60	.....	384,302	114,351	129,506	23,280.25
Grafton,	64	.....	64,402	16,810	19,610	4,310.68
Streeter,	67	.....	440,626	121,404	156,529	28,148.75
Bismarck,	69	.....	30,279	7,663	9,704	2,026.00
Glen Ullin,	70	.....	494,628	106,966	132,787	28,481.00
Walcott,	71	.....	34,696	20,136	34,523	6,910.27
Forbes,	76	.....	115,900	35,393	41,152	8,622.00
Lidgerwood,	79	.....	141,104	44,130	56,702	11,819.28
Galesburg,	82	.....	138,588	38,227	48,933	8,923.83
Ashley,	87	.....	329,504	95,910	113,649	21,947.13
Dickinson,	91	.....	138,305	38,368	44,553	9,830.45
Drayton,	93	.....	35,813	10,892	16,510	2,704.53

CREAMERY REPORTS FOR THE YEAR ENDING JUNE 30, 1911 - Continued.

Location.	No. License	Milk.	Cream	Butterfat	Butter Made.	Money Paid Patrons
Kner's Dairy, Fargo,	95	.....	501,809	148,075	324,100	38,380.08
Strasburg,	98	.....	140,324	44,568	52,678	9,044.09
McKenzie,	99	.....	108,010	50,109	69,524	12,081.25
Rowsumont,	100	.....	30,101	11,268	13,775	2,610.06
Almont,	101	.....	66,519	19,380	21,077	4,685.84
Wales,	102	.....	109,813	33,063	40,478	7,809.90
Carplo,	103	.....	156,581	176,230	23,602	6,118.25
Neche,	105	.....	50,353	13,301	15,942	2,927.19
Dwinnhoff,	106	.....	134,832	40,214	54,196	8,744.11
Kenmare,	108	.....	128,987	36,327	41,019	7,930.00
Casselton,	109	.....	116,334	61,132	31,365	8,558.90
Michaels, Judson,	110	.....	68,602	19,311	19,746	4,667.40
Driscoll,	116	.....	242,350	52,089	87,405	16,922.30
Walhalla,	118	.....	75,561	25,936	30,735	5,770.98
Richardton,	123	.....	113,515	31,229	36,711	7,198.75
Edmonds,	124	.....	49,780	14,391	17,248	3,256.57
Hazleton,	125	.....	1,047,948	84,894	95,050	17,974.29
Washburn,	126	.....	288,716	81,596	92,012	18,176.54
Marlon,	128	.....	200,265	50,546	57,751	12,783.71
Hensler,	130	.....	70,988	20,586	24,233	5,389.22
Rhein,	141	.....	107,254	24,146	27,455	8,928.83
Hankinson,	144	.....	273,981	83,437	111,750	20,571.41
Miscellaneous .....	.....	.....	610,090	166,235	200,917	42,226.13
Total .....	.....	5,005,949	11,492,252	3,114,667	3,695,720	\$ 748,777.32

CREAM STATION REPORTS FOR YEAR ENDING JUNE 30, 1911.

Town.	Lbs. Butterfat.	Value.
Abercomble,	4,059.68	\$ 981.64
Anselm,	9,937.00	2,145.10
Ardoch,	765.67	195.00
Arvilla,	2,939.06	649.27
Ashley,	93,450.00	20,295.73
Backoo,	347.53	64.96
Bendiet,	1,214.00	242.50
Bowdon,	3,112.00	622.40
Burnstad,	7,689.00	1,460.91
Cando,	834.42	147.96
Cayuga,	3,699.00	961.74
Colfax,	19,589.74	4,619.57
Carrington,	286.00	54.34
Cleveland,	2,559.57	475.19
Dazey,	560.00	106.40
DeLamere,	44,370.98	10,183.59
Denbigh,	180.00	32.40
Doyon,	1,662.94	311.38
Drake,	641.00	121.79
Dresden,	1,403.00	281.80
Easby,	1,201.00	240.20
Eckelson,	820.19	191.51
Edinburg,	2,443.78	614.73
Edmore,	1,938.00	373.29
Elgin,	1,219.00	219.42
Emerado,	818.56	205.88
Englevale,	686.00	157.78
Erie,	75.00	15.00
Fairmount,	3,389.42	907.61
Forest River,	565.31	141.56
Fredonia,	55,629.97	11,761.58
Gackle,	26,923.00	6,151.16
Guelph,	2,575.00	373.63
Garrison,	3,101.00	527.17
Gascoyne,	563.00	95.71
Glasston,	31.20	5.92
Great Bend,	2,720.04	689.56
Hague,	53,352.00	12,501.58
Hamilton,	4,435.90	869.67
Hampden,	76.85	14.59
Hample,	198.00	49.50
Hankinson,	15,260.00	4,563.61
Hatton,	7,805.00	1,629.29
Havana,	6,574.00	1,380.54
Heaton,	1,103.00	319.57
Hensel,	20,861.00	4,550.68
Holmes,	4,903.00	1,101.55
Hurdsfield,	2,604.00	684.76
Inkster,	3,868.95	931.49
Joliette,	7,462.56	1,923.70
Kaiser,	251.00	70.28
Kintyre,	6,854.00	1,298.46
Lakota,	39.95	7.58
Larimore,	12,295.07	3,023.86
Lawton,	2,017.81	384.69
Lehr,	92,339.00	22,798.76
Leonard,	34,383.00	10,013.59
Linton,	64,273.00	14,686.72
Lisbon,	1,980.00	376.20
Litchville,	408.68	84.86
McClusky,	1,560.00	313.20
McLeod,	5,977.99	1,163.09
McVillie,	3,154.00	599.26
Manvel,	1,898.00	449.68
Martin,	2,266.00	455.20
Mayville,	1,257.00	314.25
Meklinock,	1,167.16	306.85
Michigan,	6,508.84	1,591.02

Town.	Lbs. Butterfat.	Value.
Michigan	6,508.84	1,591.02
Millnor,	30,791.84	6,891.51
Minto,	24.00	5.04
Momft,	2,341.00	561.84
Napoleon,	10,607.00	2,015.33
Niagara,	154.06	28.01
Nome,	258.44	52.75
Northwood,	4,156.96	807.08
Oakes,	10,570.00	3,032.03
Osnabrock	2,966.00	483.34
Pembina,	791.48	193.64
Pilot,	346.88	64.92
Pisak,	3,827.00	897.98
Reynolds,	4,921.50	1,246.12
St. Thomas,	6,615.85	1,645.59
Sheldon,	948.73	226.38
Stirum,	3,934.00	866.72
Strasburg,	32,031.00	7,602.20
Streeter,	29,058.00	6,556.44
Union,	2,061.48	394.71
Venturia,	57,679.00	12,285.26
Verona,	188.00	35.84
Wild Rice,	249.00	64.74
Wishek,	28,375.80	5,428.55
Zeeland,	63,965.00	13,741.07
Total,	967,903.34	220,212.07

REPORT OF DAIRY COMMISSIONER

LIST OF CREAMERIES LICENSED FOR TERM ENDING JUNE 30, 1911.

Date Issued	Lic. No.	Name—Location	Fee
July 12	123	Glover Creamery Co.—Richardson	10.00
July 12	60	Finnish Creamery Co.—Gackle	10.00
July 13	1	Garfield Creamery Co.—Youngtown	10.00
July 13	95	Frank O. Knerr Dairy Co.—Kargo	10.00
July 13	91	Dickinson Creamery Co.—Dickinson	10.00
July 13	16	Steele Creamery Co.—Steele	10.00
July 13	81	Milton Dairy Co.—Milton	10.00
July 14	32	LaMoure Creamery Co.—LaMoure	10.00
July 14	33	Medina Creamery Co.—Medina	10.00
July 14	53	Barney Creamery Co.—Barney	10.00
July 14	86	Cavaller Creamery Co.—Cavaller	10.00
July 14	89	Portland Creamery Co.—Portland	10.00
July 14	104	Almont Creamery Co.—Almont	10.00
July 14	108	Kenmare Creamery Co.—Kenmare	10.00
July 14	118	Sharp's Ice Cream & Butter Factory—Williston	10.00
July 14	124	Edmunds Creamery Co.—Edmunds	10.00
July 15	27	Farmer's Co-Operative Creamery Co.—Penn.	10.00
July 15	35	Center Creamery Association—Center	10.00
July 15	103	Carpio Creamery Co.—Carpio	10.00
July 15	125	Hazleton Creamery Association—Hazleton	10.00
July 16	14	Judson Creamery Co.—Judson	10.00
July 16	126	Farmer's Creamery Co.—Washburn	10.00
July 16	19	Wyndmere Creamery Co.—Wyndmere	10.00
July 16	25	Tower City Creamery Co.—Tower City	10.00
July 16	34	Hanover Creamery Co.—Hanover	10.00
July 18	111	White Bros.—Minot	10.00
July 18	4	Rosebud Creamery Co.—Rosebud	10.00
July 18	107	Palermo Creamery Co.—Palermo	10.00
July 18	45	Kathryn Creamery Co.—Kathryn	10.00
July 20	57	James River Valley Creamery Co.—Jamestown	10.00
July 20	113	Ray Creamery Co.—Ray	10.00
July 21	114	Minto Co-Operative Creamery Co.—Minto	10.00
July 21	105	Neche Creamery Co.—Neche	10.00
July 22	127	St. John Creamery Co.—St. John	10.00
Aug. 1	79	Lidgerwood Creamery Co.—Lidgerwood	10.00
Aug. 1	38	Knerr's Creamery—Fargo	10.00
Aug. 1	110	Michaels Bros.—Judson	10.00
Aug. 7	76	Forbes Creamery Co.—Forbes	10.00
Aug. 1	80	Argusville Creamery Co.—Argusville	10.00
Aug. 1	3	Bluegrass Co-Operative Creamery Co.—Bluegrass	10.00
Aug. 1	98	Strasburg Creamery Co.—Strasburg	10.00
Aug. 2	119	Walhalla Co-Operative Creamery Co.—Walhalla	10.00

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911--Continued

Date Issued	Lic. No.	Name--Location	Fee
Aug. 2	78	Northwood Creamery Co.—Northwood	10.00
Aug. 3	100	Howesmont Creamery Co.—Howesmont	10.00
Aug. 5	30	Valley City Creamery Co.—Valley City	10.00
Aug. 8	31	Kulm Creamery Co.—Kulm	10.00
Aug. 8	67	Streeter Creamery Co.—Streeter	10.00
Aug. 9	122	Fargo Ice Cream & Cider Co.—Fargo	10.00
Aug. 8	54	Grand Forks Central Creamery Co.—Grand Forks	10.00
Aug. 9	55	Ellendale Creamery Co.—Ellendale	10.00
Aug. 13	49	Oberon Co-Operative Creamery—Oberon	10.00
Aug. 13	99	McKenzie Creamery Co.—McKenzie	10.00
Aug. 13	128	Johnston Stock & Farming Co.—Marion	10.00
Aug. 20	15	Lawson Creamery Co.—Lawson	10.00
Aug. 20	69	Hess Creamery—Bismarck	10.00
Aug. 20	70	Hess Creamery—Glen Ullin	10.00
Aug. 20	64	Grafton Creamery Co.—Grafton	10.00
Aug. 22	82	Galesburg Creamery Co.—Galesburg	10.00
Aug. 22	5	Hebron Creamery Co.—Hebron	10.00
Aug. 22	46	Tower City Creamery Co.—Tower City	10.00
Aug. 22	102	Wales Co-Operative Creamery Co.—Wales	10.00
Aug. 23	116	Driscoll Creamery Co.—Driscoll	10.00
Aug. 23	106	Denhoff Creamery Co.—Denhoff	10.00
Aug. 24	129	Rugby Creamery Co.—Rugby	10.00
Aug. 26	130	Hensel Creamery Co.—Hensel	10.00
Aug. 29	71	Walcott Creamery Co.—Walcott	10.00
Aug. 29	6	Hebron Creamery Co.—Hebron	10.00
Sept. 1	87	Asaley Milling Co.—Ashley	10.00
Sept. 3	2	New Salem Butter Mfg. Co.—New Salem	10.00
Sept. 3	97	Bathgate Creamery Co.—Bathgate	10.00
Sept. 6	131	Gilby Creamery Co.—Gilby	10.00
Sept. 9	104	Napoleon Creamery Co.—Napoleon	10.00
Sept. 10	109	Casselton Creamery Co.—Casselton	10.00
Sept. 10	115	Hettinger Creamery Co.—Hettinger	10.00
Sept. 19	93	Drayton Creamery Co.—Drayton	10.00
Sept. 19	121	Rhein Creamery Co.—Rhein	10.00
Sept. 19	131	Bon Ton Creamery—Fargo	10.00
Oct. 3	132	Farmers Creamery Association—Adams	10.00
March 25	27	Penn Creamery Co.—Penn	10.00
April 15	134	Upham Co-Operative Creamery Co.—Upham	10.00
April 17	133	Powers Lake Creamery Co.—Powers Lake	10.00
May 9	135	Springbrook Creamery Co.—Spring Brook	10.00
May 19	136	Hensler Creamery Co.—Hensler	10.00
Total receipts for term ending June 30, 1911			\$ 830.00

LIST OF CREAMERIES LICENSED FOR TERM ENDING JUNE 30, 1912.

Date Issued	Lic. No.	Name—Location	Fee
July 10	32	LaMoure Creamery Co.—LaMoure	10.00
July 15	54	Grand Forks Central Creamery Co.—Grand Forks	10.00
July 22	97	Bathgate Creamery Co.—Bathgate	10.00
July 22	97	Ashley Milling Co.—Ashley	10.00
July 22	126	Farmers Creamery Co.—Washburn	10.00
July 22	96	Frank O. Kneer Dairy Co.—Fargo	10.00
July 22	31	Kulm Creamery & Electric Co.—Kulm	10.00
July 22	81	Milton Creamery Association—Milton	10.00
July 22	67	Streeter Creamery Co.—Streeter	10.00
July 22	82	Galesberg Creamery Co.—Galesberg	10.00
July 22	5	Hebron Creamery Co.—Hebron	10.00
July 22	60	Finnish Creamery Co.—Gackle	10.00
July 22	16	Kathryn Creamery Co.—Kathryn	10.00
July 22	45	Steele Creamery Co.—Steele	10.00
July 22	100	Bowesmont Creamery Association—Bowesmont	10.00
July 22	110	Michaels Creamery Co.—Judson	10.00
July 22	101	Almont Co-Operative Creamery Assn.—Almont	10.00
July 22	103	Neche Creamery Co.—Neche	10.00
July 22	46	Tower City Creamery Co.—Tower City	10.00
July 22	33	Medina Creamery Co.—Medina	10.00
July 22	64	Grafton Creamery Co.—Grafton	10.00
July 22	119	Walhalla Creamery Co.—Walhalla	10.00
July 22	137	Bantry Creamery Co.—Bantry	10.00
July 24	79	Lidgerwood Creamery Co.—Lidgerwood	10.00
July 24	68	Cravy Creamery Co.—Cravy	10.00
July 24	15	Dawson Creamery Co.—Dawson	10.00
July 24	4	Rosebud Creamery Co.—Rosebud	10.00
July 25	65	Johnston Stock & Farming Co.—Marion	10.00
July 25	19	Wyndmere Creamery Co.—Wyndmere	10.00
July 25	29	Clover Creamery Co.—Richardton	10.00
July 26	127	St. John Creamery Co.—St. John	10.00
July 26	111	White Bros.—Minot	10.00
July 26	124	Edmunds Creamery Co.—Edmunds	10.00
July 27	107	Palermo Creamery Co.—Palermo	10.00
July 27	99	McKenzie Creamery Co.—McKenzie	10.00
July 27	55	Ellendale Creamery Co.—Ellendale	10.00
July 27	16	Driscoll Creamery Co.—Driscoll	10.00
July 28	3	Bluegrass Co-Operative Creamery Co.—Bluegrass	10.00
July 28	102	Wales Co-Operative Creamery Co.—Wales	10.00
July 28	34	Hannover Creamery Co.—Hannover	10.00
July 28	138	Yuca Creamery Co.—Yuca	10.00
July 28	81	Dickinson Creamery Co.—Dickinson	10.00
July 28	36	Kneer's Creamery—Fargo	10.00
July 29	67	James River Valley Creamery—Jamestown	10.00
July 29	103	Carpis Creamery—Carpis	10.00

LIST OF CREAMERIES LICENSED FOR TERM ENDING JUNE 30, 1912—Continued.

Date Issued	Lic. No.	Name—Location	Fee
July 29	132	Farmer's Creamery Association—Adams	10.00
July 31	139	Ladwin Creamery Co.—Baldwin	10.00
July 31	140	Tolley Creamery Co.—Tolley	10.00
July 31	122	Fargo Ice Cream & Cider Co.—Fargo	10.00
July 31	71	Walcott Creamery Co.—Walcott	10.00
Aug. 1	141	Rheln Creamery Co.—Rheln	10.00
Aug. 2	1	Garfield Creamery Co.—Youngtown	10.00
Aug. 2	113	Day Creamery Co.—Day	10.00
Aug. 2	53	Barney Creamery Co.—Barney	10.00
Aug. 2	98	Strasburg Creamery Co.—Strasburg	10.00
Aug. 3	35	Center Creamery Co.—Center	10.00
Aug. 3	118	Sharp Ice Cream & Butter Factory—Williston	10.00
Aug. 4	30	Valley City Creamery Co.—Valley City	10.00
Aug. 5	142	White Earth Creamery—White Earth	10.00
Aug. 5	130	Hensel Creamery Co.—Hensel	10.00
Aug. 7	125	Hazelton Creamery Co.—Hazelton	10.00
Aug. 7	93	Drayton Creamery Co.—Drayton	10.00
Aug. 7	69	Hess Creamery Co.—Bismarck	10.00
Aug. 7	49	Oberon Creamery Co.—Oberon	10.00
Aug. 11	6	Heilbron Creamery Co.—Hebron	10.00
Aug. 16	106	Denhoff Creamery Co.—Denhoff	10.00
Aug. 16	2	New Salem Butter Mfg. Co.—New Salem	10.00
Aug. 18	143	Mott Creamery Co.—Mott	10.00
Aug. 18	14	Judson Creamery Co.—Judson	10.00
Aug. 19	108	Kenmare Creamery Co.—Kenmare	10.00
Aug. 21	144	Hankinson Creamery Co.—Hankinson	10.00
Sept. 22	70	Hess Creamery—Glen Ullin	10.00
Sept. 25	44	Theon Bros. Creamery Co.—Kindred	10.00
Oct. 16	25	Towner Bros. Creamery Co.—Towner	10.00
Nov. 1	145	Farmer's Co-operative Creamery—Burnstad	10.00
Jan. 31	146	Carlson Creamery Co.—Carlson	10.00
March 25	147	Hendingson Pro. Co.—Minot	10.00
March 30	44	Kindred Creamery Co.—Kindred	10.00
April 27	148	Elgin Creamery Co.—Elgin	10.00
May 7	149	Gunderson & Viken—Kasner	10.00
May 10	112	Bowman Creamery Co.—Bowman	10.00
May 18	87	Chas. Schmitt Co.—Ashley	10.00
May 21	123	Powers Lake Creamery Co.—Powers Lake	10.00
May 31	150	Golden Valley Creamery Co.—Golden Valley	10.00
June 5	78	Northwood Creamery Co.—Northwood	10.00
June 8	131	Gilby Creamery Co.—Gilby	10.00
June 24	33	Medina Creamery Co.—Medina	10.00
Amount of total receipts for term ending June 30, 1912			\$ 870.00

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911.

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
99.	Bridgeman-Russell—Duluth, Minn.	A. A. Hoed & Co.—Emerado	
100	Bridgeman-Russell—Duluth, Minn.	V. E. Bemis & Co.—Inkster	
101	Bridgeman-Russell—Duluth, Minn.	I. D. Sheets—Arvilla	
102	Bridgeman-Russell—Duluth, Minn.	C. E. Colosky—Manvel	
103	Bridgeman-Russell—Duluth, Minn.	Brantvold & Johnson—Edinburg	
104	Bridgeman-Russell—Duluth, Minn.	Lorvik & Cervinka—Pleak	
105	Bridgeman-Russell—Duluth, Minn.	Jas. H. Magoris—Larimore	
106	Bridgeman-Russell—Duluth, Minn.	Bogan Bros.—Ardoch	
107	F. Sahli—Hague, N. D.	F. Sahli—Hague	
108	Bridgeman-Russell—Duluth, Minn.	Garnett Bros.—St. Thomas	
109	North American Storage Co.—Alexandria, Minn.	H. Hayes—Milnor	
110	Jund & Schumaker—Zeeland, N. D.	Jund & Schumaker—Zeeland, N. D.	
111	R. E. Cobb—St. Paul, Minn.	H. W. Larson—Hutton	
112	R. E. Cobb—St. Paul, Minn.	Fred Bodman—Ashley	
113	De Sota Creamery & Produce Co.—Minneapolis	Jacob Bauer—Lehr	
114	De Sota Creamery & Produce Co.—Minneapolis	P. A. Mueller—Wabek	
115	M. E. Gehon—Aberdeen, S. D.	Carl Swanson—Guelph	
116	R. E. Cobb—St. Paul, Minn.	John Larson—Delamere	
117	R. E. Cobb—St. Paul, Minn.	Gottfried Haas—Fredonia	
118	R. E. Cobb—St. Paul, Minn.	O. F. Worner—Great Bend	
119	R. E. Cobb—St. Paul, Minn.	F. S. Black—Strum	
120	R. E. Cobb—St. Paul, Minn.	Anton Langenhausen—Streeter	
121	R. E. Cobb—St. Paul, Minn.	Geo. J. Karmer—Wild Rice	
122	R. E. Cobb—St. Paul, Minn.	Joseph & Swardlaw—Wabek	
123	Bridgeman-Russell—Duluth, Minn.	Kellogg & Sloan—Eckelson	
124	De Sota Creamery & Produce Co.—Minneapolis	Wiedmann Bros.—Venturia	
125	M. E. Gehon—Aberdeen, S. D.	Jas. S. Jensen—Monango	
126	M. E. Gehon—Aberdeen, S. D.	S. H. North—Ludden	
127	Samels Bros.—Minneapolis, Minn.	M. Mackoff—Lehr	
128	M. E. Gehon—Aberdeen, S. D.	John Beck—Zeeland	
129	M. E. Gehon—Aberdeen, S. D.	Math Mosser—Strasburg	
130	De Sota Creamery & Produce Co.—Minneapolis	Martin Shall—Hague	
131	M. E. Gehon—Aberdeen S. D.	V. W. Keller—Hague	
132	R. E. Cobb—St. Paul, Minn.	F. T. Stevens—Merricourt	
133	Milton Dairy Co.—St. Paul, Minn.	Intelhouse Bros.—Milnor	
134	Hanford Produce Co.—Sioux City, Iowa	Albert Mindt—Zeeland	
135	M. E. Gehon—Aberdeen, S. D.	Schulte Bros.—Strasburg	
136	Hanford Produce Co.—Sioux City, Iowa	A. L. Fox—Monango	
137	R. E. Cobb—St. Paul, Minn.	C. A. Mix—Cayuga	Wm. Hepp

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911—Continued

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
138	R. E. Cobb—St. Paul, Minn.	W. W. Mewing—Linton	
139	De Sota Creamery & Produce Co.—Minneapolis, Minn.	Benjamin Stern—Fredonia	
140	M. E. Gehon—Aberdeen, S. D.	Wm. Devener—Edgley	
141	M. E. Gehon—Aberdeen, S. D.	Derrick Larson—Brampton	
142	Bridgeport—Russell—Duluth, Minn.	Frank Patreau—Joliette	
143	North American Storage Co.—Alexandria, Minn.	August Olson—Oakes	
144	Bridgeport—Russell—Duluth, Minn.	W. A. Hedron—Michigan	
145	Bridgeport—Russell—Duluth, Minn.	Gunder Thompson—Mekinock	
146	De Sota Creamery & Produce Co.—Minneapolis, Minn.	David Berman—Ashley	
147	De Sota Creamery & Produce Co.—Minneapolis, Minn.	A. J. Welback—Zeeland	
148	R. E. Cobb—St. Paul, Minn.	J. W. Dakin—Minior	
149	R. E. Cobb—St. Paul, Minn.	John Rolstad—Colfax	
150	John Blinderman—Zeeland, N. D.	John Blinderman—Zeeland	
151	Hanaford Produce Co.—Sioux City, Iowa	Ios. Rochrick—Strasburg	
152	Miller & Holmes—St. Paul, Minn.	O. T. Scale—Fairmount	
153	Samels Bros.—Minneapolis, Minn.	Matt. Jost—Hankinson	
154	Samels Bros.—Minneapolis, Minn.	Iens Pederson—Minior	
155	Samels Bros.—Minneapolis, Minn.	Herr Bros. & Docktor—Wishek	
156	Miller & Holmes—St. Paul, Minn.	Jorgenson, Nelson & Austin—Minior	
157	Miller & Holmes—St. Paul, Minn.	Lee & Myhre—Colfax	
158	De Sota Creamery & Produce Co.—Minneapolis, Minn.	H. H. Reindl—Cognswell	
159	Samels Bros.—Minneapolis, Minn.	Chas. Larnall—Mantador	
160	Bridgeport—Russell—Duluth, Minn.	A. B. Steen—Reynolds	
161	Fargo Ice Cream & Cider Co.—Fargo, N. D.	E. W. Arnold—Leonard	
162	Fargo Ice Cream & Cider Co.—Fargo, N. D.	Ben Johnson—Lisbon	
163	R. E. Cobb—St. Paul, Minn.	C. M. Hunn—Venturia	
164	Wm. Klein—Lehr, N. D.	Wm. Klein—Lehr	J. M. Bacthor
165	De Sota Creamery & Produce Co.—Minneapolis, Minn.	John L. Schneider—Strasburg	
166	Miller & Holmes—St. Paul, Minn.	O. E. Gratz—Delamere	
167	R. E. Cobb—St. Paul, Minn.	Wellan-Tyhrus—Mayville	
168	John Hummel—Gackle, N. D.	John Hummel—Gackle	
169	Kenneth McKinnon—Moreton, N. D.	Kenneth McKinnon—Moreton	
170	H. C. Lamberton—Tappen, N. D.	H. C. Lamberton—Tappen	
171	Grosz & Co.—Fredonia, N. D.	Grosz & Co.—Fredonia	
172	Miller & Holmes—St. Paul, Minn.	C. A. Myron—Abercrombie	
173	De Sota Creamery & Produce Co.—Minneapolis, Minn.	T. F. O'Brien—Linton	
174	M. E. Gehon—Aberdeen, S. D.	Milton Culbertson—Linton	
175	Noah Dorfman—Ashley	Noah Dorfman—Ashley	

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911—Continued

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
176	Max Silverman—Ashley, N. D.	Max Silverman—Ashley	
177	Fargo Ice Cream & Cider Co.—Fargo, N. D.	Bergstrom Bros.—Abercrombie	
178	Lidgerwood Creamery Co.—Lidgerwood, N. D.	H. G. Ormbuck—Hampre	
179	Strasburg Creamery Co.—Strasburg, N. D.	C. Rowderink—Westfield	
180	J. H. Dyster—Forman, N. D.	J. H. Dyster—Forman	
181	Ashley Milling Co.—Ashley, N. D.	G. G. Scheeler—Napoleon	
182	F. C. Goll—Ashley, N. D.	F. C. Goll—Ashley	
183	Milton Dairy Co.—St. Paul, Minn.	H. Mizner—Cleveland	
184	John Rott—Lehr, N. D.	John Rott—Lehr	
185	Redfield Produce Co.—Redfield, S. D.	R. Wahl—Strasburg	
186	F. S. Shauer—Ashley, N. D.	F. S. Shauer—Ashley	
187	Grand Forks Central Creamery—Grand Forks, N. D.	A. Rogn—Buxton	
188	Ashley Milling Co.—Ashley, N. D.	D. Hinds & Co.—Burnstad	
189	Hankinson Creamery Co.—Hankinson, N. D.	David Lubenow—Great Bend	
190	A. C. Kresslin—Barney, N. D.	F. W. Youngberg—Gwinner	
191	R. E. Cobb—St. Paul, Minn.	J. A. Robieson—Anaelm	
192	Herried Creamery Co.—Herried, S. D.	Saylor Bros.—Venturia	
193	G. A. Gehon—Bristol, S. D.	A. J. Wald—Zeeland	
194	North American Storage Co.—Paynesville, Minn.	Matt Jost—Hankinson	
195	H. T. Schroeder—Holmes, N. D.	H. T. Schroeder—Holmes	
196	R. E. Cobb—St. Paul, Minn.	Fred W. Husey—Moffat	
197	C. J. Van Der Leist—Hull, N. D.	C. J. Van Der Leist—Hull	
198	Joseph Swerdlau—Wishek, N. D.	Joseph Swerdlau—Wishek	
199	Frank O. Knerr Dairy Co.—Fargo, N. D.	John Bros.—Leonard	
200	Ashley Milling Co.—Ashley, N. D.	H. Fuchapen—Heliwig	
201	Westerberg & Cervin—Gwinner	Westerberg & Cervin—Gwinner	
202	Hettinger Creamery Co.—Hettinger, N. D.	H. Evers—Reider	
203	Denhoff Creamery Co.—Denhoff, N. D.	Mercer Co-operative Co.—Mercer	
204	Hankinson Creamery Co.—Hankinson, N. D.	Hurley Bros.—Forman	
205	Napoleon Creamery Co.—Napoleon, N. D.	Shepard Myhre Co.—Burnstad	
206	H. R. Dickinson—Reynolds, N. D.	H. R. Dickinson—Reynolds	
207	Samels Bros.—Minneapolis, Minn.	F. M. Buchholz—Venturia	
208	Denhoff Creamery Co.—Denhoff, N. D.	Geo. McFadden—Mercer	
209	Jacob Flach—Gackle, N. D.	Jacob Flach—Gackle	Jacob Flach
210	Hurley Bros.—Forman, N. D.	Hurley Bros.—Forman	
211	Reynolds Co-operative Co.—Reynolds, N. D.	O. S. Gunderson—Reynolds	
212	John Wolfer—Linton, N. D.	John Wolfer—Linton	
213	Bridgeman Russell—Duluth, Minn.	Jos. Paxman & Son—Hamilton	
214	Redfield Produce Co.—Redfield, N. D.	Christian Hirling—Hague	

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911 —Continued.

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
215	Wm. Koepplin—Lehr, N. D.	Wm. Koepplin—Lehr	Barber & Wergin Hattie Splittists
216	R. E. Cobb—St. Paul, Minn.	Edwards Bros.—McCanna	
217	R. E. Cobb—St. Paul, Minn.	T. E. Slight—Drake	
218	R. E. Cobb—St. Paul, Minn.	Geo. L. Robinson—Garrison	
219	R. E. Cobb—St. Paul, Minn.	J. W. Hay—Heaton	
220	R. E. Cobb—St. Paul, Minn.	Schmitt Bros.—Bowdon	Mrs. J. W. King
221	R. E. Cobb—St. Paul, Minn.	H. J. Mathiesen & Co.—Dresden	
222	R. E. Cobb—St. Paul, Minn.	Geo. H. Nasse—Erie	
223	R. E. Cobb—St. Paul, Minn.	August Sjoquist—Dwight	
224	R. E. Cobb—St. Paul, Minn.	Ed. Hebransen—Easby	
225	R. E. Cobb—St. Paul, Minn.	Lovett Bros.—Berlin	Jens Pederson
226	R. E. Cobb—St. Paul, Minn.	Elgin Merc. Co.—Elgin	
227	R. E. Cobb—St. Paul, Minn.	Aslakson & Peterson—Edmore	
228	F. E. Galloway—Brittin, N. D.	F. E. Galloway—Brittin	
229	R. E. Cobb—St. Paul, Minn.	Perkins Bros.—Gascayne	
230	R. E. Cobb—St. Paul, Minn.	C. S. Reckel—Rogers	Gust Hage
231	R. E. Cobb—St. Paul, Minn.	Chas. Tusson—Brampton	
232	R. E. Cobb—St. Paul, Minn.	M. E. Kramer & Co.—Skeston	
233	R. E. Cobb—St. Paul, Minn.	Mrs. Lena Baker—Hurdsville	
234	John Dalke—Larvik, N. D.	John Dalke—Larvik	
235	Bridgeman-Russell—Duluth, Minn.	J. A. Robleson—Anselm	Jos. Kroft
236	R. E. Cobb—St. Paul, Minn.	James Nelson—Nome, N. D.	
237	R. E. Cobb—St. Paul, Minn.	Dazey Co-operative Store—Dazey	
238	Nilsson Mercantile Co.—Milnor, N. D.	Nilsson Merc. Co.—Milnor	
239	Karl Bauer—Fredonia, N. D.	Karl Bauer—Fredonia	
240	Minnesota Butter & Cheese—St. Paul, Minn.	John H. Horner—Linton	Gust Hage
241	Bridgeman-Russell—Duluth, Minn.	J. S. Anthony—Lawton	
242	R. E. Cobb—St. Paul, Minn.	Iver A. Leatrud—Edmore	
243	R. E. Cobb—St. Paul, Minn.	Allstot & Flora—Denbigh	
244	R. E. Cobb—St. Paul, Minn.	C. M. Hansen—Northwood	
245	R. E. Cobb—St. Paul, Minn.	Granville Merc. Co.—Granville	Jos. Kroft
246	R. E. Cobb—St. Paul, Minn.	Inkster Merc. Co.—Inkster	
247	R. E. Cobb—St. Paul, Minn.	Martin Cream Co.—Martin	
248	R. E. Cobb—St. Paul, Minn.	Math Moser—Strasburg	
249	R. E. Cobb—St. Paul, Minn.	G. H. Helland—Enger	
250	R. E. Cobb—Napoleon, N. D.	John L. Schneider—Napoleon	Jos. Kroft
251	Fred Bodman—Ashley, N. D.	K. R. Spitzer—Ashley	
252	R. E. Cobb—St. Paul, Minn.	Chas. W. Pollock—Fingal	

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1911—Continued.

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
253	R. E. Cobb—St. Paul, Minn.	H. O. Mannes—Jud	Philip Klingman
254	N. Schlasinger—Ashley, N. D.	N. Schlasinger—Ashley	
255	R. E. Cobb—St. Paul, Minn.	E. Smoot—Kintyre	
256	R. E. Cobb—St. Paul, Minn.	T. L. Quarve—Fessenden	
257	R. E. Cobb—St. Paul, Minn.	P. C. Clark—Carrington	
258	R. E. Cobb—St. Paul, Minn.	W. P. Brougher—Havana	
259	Bridgeman-Russell—Duluth, Minn.	H. T. Ellenson—Union	
260	R. E. Cobb—St. Paul, Minn.	Wells & Schmitz—Lisbon	
261	R. E. Cobb—St. Paul, Minn.	Carl L. Okart—Max	
262	Miller & Holmes—St. Paul, Minn.	Jacob C. Krein—Wabek	Frank Hunt
263	Christoferson Co.—Kenau, N. D.	Christoferson Co.—Kenau	
264	Bridgeman-Russell—Duluth, Minn.	F. R. Chamberlain—Doyon	
265	Bridgeman-Russell—Duluth, Minn.	C. R. Rucker—Dresden	
266	Moore & O'Neill—Buffalo, N. D.	Moore & O'Neill—Buffalo	
267	John Bros. & Son—Leonard, N. D.	John Bros. & Son—Leonard	
268	R. E. Cobb—St. Paul, Minn.	Grosz Merc. Co.—McClusky	
269	Fargo Ice Cream & Cider Co.—Fargo, N. D.	Nafalen Bros.—Buffalo	
270	Bridgeman-Russell—Duluth, Minn.	Troter-Syverud Co.—Oshtemo	
271	Bridgeman-Russell—Duluth, Minn.	E. H. A. Fischer—Kelleys	Ed. Onstad
272	Milton Dairy Co.—St. Paul, Minn.	S. A. Stearns—Cleveland	
273	Bridgeman-Russell—Duluth, Minn.	J. W. Surber—Cando	
274	Max Welder—Forbes, N. D.	Max Walder—Forbes	
275	Milton Dairy Co.—St. Paul, Minn.	J. A. Robleson—Anselm	
276	Bridgeman-Russell—Duluth, Minn.	R. H. Schindeldecker—Itchville	
277	Jacob Fleisch—Gackle, N. D.	Jacob Fleisch—Gackle	
278	Bridgeman-Russell—Duluth, Minn.	D. C. Craddock—Nome	
Amount of total receipts at \$10.00 per station for term ending June 30, 1911			\$ 1,800.00



LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1912.

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
279	Bridgeman-Russell—Duluth, Minn.	Harry Hayes—Milnor	Flag & Co.
280	Miller & Holmes—St. Paul, Minn.	H. Mizner—Cleveland	
281	Miller & Holmes—St. Paul, Minn.	C. J. Wickeron—McLeod	
282	F. Sahil—Hague, N. D.	F. Sahil—Hague	
283	R. E. Cobb—St. Paul, Minn.	Jos. Schwerdlaw—Wishek	
284	Redfield Produce Co.—Redfield, S. D.	B. Wahl—Strasberg	
285	O. T. Vaala—Fairmount	O. T. Vaala—Fairmount	
286	Bridgeman-Russell—Duluth, Minn.	Northwood Merc. Co.—Northwood	
287	R. E. Cobb—St. Paul, Minn.	H. W. Larson—Hutton	
288	R. E. Cobb—St. Paul, Minn.	J. W. Welkel—Streeter	
289	Hankinson Creamery Co.—Hankinson, N. D.	Fred Krane—Hankinson	
290	R. E. Cobb—St. Paul, Minn.	E. S. Black—Strum	
291	R. E. Cobb—St. Paul, Minn.	Gottfried Haas—Fredonia	
292	R. E. Cobb—St. Paul, Minn.	John Larson—De Lamere	
293	Bridgeman-Russell—Duluth, Minn.	V. E. Bemis & Co.—Inkster	
294	Bridgeman-Russell—Duluth, Minn.	Lovick & Cervinka—Pisek	
295	R. E. Cobb—St. Paul, Minn.	Fred Bodman—Ashley	
296	R. E. Cobb—St. Paul, Minn.	Hagen & Erickson—Piaza	
297	R. E. Cobb—St. Paul, Minn.	A. J. Wald—Zeeland	
298	Bridgeman-Russell—Duluth, Minn.	T. D. Sheets—Arvilla	
299	R. E. Cobb—St. Paul, Minn.	E. L. Larson & Co.—McLeod	
300	R. E. Cobb—St. Paul, Minn.	W. W. Mewing—Linton	
301	R. E. Cobb—St. Paul, Minn.	O. F. Worner—Great Bend	
302	Arnold & Anderson—Leonard, N. D.	Arnold & Anderson—Leonard	
303	Bridgeman-Russell—Duluth, Minn.	F. Pariseau—Jollette	
304	R. E. Cobb—St. Paul, Minn.	M. Mackoff—Lehr	
305	R. E. Cobb—St. Paul, Minn.	Saylor Bros.—Venturia	
306	Bridgeman-Russell—Duluth, Minn.	J. H. Nagoris—Larimore	
307	Emil Karim Creamery Co.—Grand Forks, N. D.	Wm. Hutchinson—McArthur	
308	Miller & Holmes—St. Paul, Minn.	D. E. Blake—DeLamere	
309	Miller & Holmes—St. Paul, Minn.	Loe & Myhre—Colfax	
310	Miller & Holmes—St. Paul, Minn.	Grosz & Co.—Fredonia	
311	M. E. Gehon—Aberdeen, S. D.	A. A. Suszycki—Monango	
312	Miller & Holmes—St. Paul, Minn.	Jorgenson, Nelson & Austin—Milnor	
313	R. E. Cobb—St. Paul, Minn.	John Bolstad—Colfax	
314	Eldavold Creamery Co.—Minneapolis, Minn.	A. Auerback—Wishek	
315	Samels Bros.—Minneapolis, Minn.	Wiedmann Bros.—Venturia	
316	M. E. Gehon—Aberdeen, S. D.	Wm. Kight—Brampton	
317	Miller & Holmes—St. Paul, Minn.	Holstead & Tweto—Abercrombie	

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1912—Continued

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
318	Reynolds Co-operative Co.—Reynolds, N. D.	O. S. Gunderson—Reynolds	A. Mitzel, Linton
319	Bridgeman-Russell—Duluth, Minn.	A. B. Steen—Reynolds	
320	M. E. Gehon—Aberdeen, S. D.	Martin Larson—Rutland	
321	M. E. Gehon—Aberdeen, S. D.	E. C. Harrison—Edgeley	
322	M. E. Gehon—Aberdeen, S. D.	Math Noszer—Strasburg	
323	Bridgeman-Russell—Duluth, Minn.	C. E. Colosky—Manvel	
324	H. T. Schroeder—Holmes, N. D.	H. T. Schroeder—Holmes	
325	Finlan Creamery Co.—Gackle, N. D.	S. J. Robinson—Alfred	
326	Wellan-Ellenson Merc. Co.—Napoleon, N. D.	Wellan-Ellenson Merc.—Napoleon	
327	M. E. Gehon—Aberdeen, S. D.	J. H. Horner—Linton	
328	M. E. Gehon—Aberdeen, S. D.	N. R. St. Marie—Regent	
329	Ashley Milling Co.—Ashley, N. D.	A. Meldinger & Son—Danzig	
330	M. E. Gehon—Aberdeen, S. D.	R. G. Sager—Forbes	
331	Emil Karim—Grand Forks, N. D.	Cavalier Cry. Co.—Cavaler	
332	North American Storage Co.—Paynesville, Minn.	August Olson—Oakes	
333	Redfield Produce Co.—Redfield, S. D.	G. Hoak—Hull	
334	R. E. Cobb—St. Paul, Minn.	T. P. Neuens—Steel	
335	Benjamin Stern—Fredonia, N. D.	Benjamin Stern—Fredonia	
336	Jacob Bauer—Lehr, N. D.	Jacob Bauer—Lehr	
337	Bergstrom Bros.—Abercrombie, N. D.	Bergstrom Bros.—Abercrombie	
338	R. E. Cobb—St. Paul, Minn.	J. A. Doering—Goodrich	
339	Farmers Co-opr. Cry. Assn.—Balfour, N. D.	J. B. Pendray—Balfour	
340	Bridgeman-Russell—Duluth, Minn.	P. A. Anderson—Pilot	
341	H. C. Lamberton—Tappen, N. D.	H. C. Lamberton—Tappen	
342	Eldavold Creamery Co.—Minneapolis, Minn.	Leland Griffin—Napoleon	
343	Schulte Bros.—Straubville, N. D.	Schulte Bros.—Straubville	
344	P. B. Feinsteln—Zeeland, N. D.	P. B. Feinsteln—Zeeland	
345	J. H. Dyste—Forman, N. D.	J. H. Dyste—Forman	
346	Noah Dorfman—Ashley, N. D.	Noah Dorfman—Ashley	
347	H. R. Dickleson—Reynolds, N. D.	H. R. Dickleson—Reynolds	
348	R. E. Cobb—St. Paul, Minn.	Kreng & Son—Underwood	
349	Bridgeman-Russell—Duluth, Minn.	Holdren & Son—Michigan	
350	F. O. Hansen—Northwood, N. D.	F. O. Hansen—Northwood	
351	M. E. Gehon—Aberdeen, S. D.	Chris Weber—Havana	
352	Miller & Holmes—St. Paul, Minn.	G. G. Scheeler—Napoleon	
353	Samels Bros.—Minneapolis, Minn.	Docktor & Schmitt—Wishek	
354	R. E. Cobb—St. Paul, Minn.	Dirksen Bros.—New Home	
355	A. M. Wing—Breckenridge, Minn.	Elmer Jones—Rutland	

356	Bridgeman-Russell—Duluth, Minn.	Garnett Bros.—St. Thomas	John Hassaford
357	T. F. O'Brien—Linton, N. D.	David Labenow—Great Bend	Huff
358	Hankinson Creamery Co.—Hankinson, N. D.	Fred Rettger—Zeeland	
359	Hanford Produce Co.—Sioux City, Iowa	Harry J. Schmitt—Donnybrook	
360	North Am. Storage Co.—Paynesville, Minn.	McAllen & Douglass—Osabrook	
361	Wales Co-Operative Cry. Co.—Wales, N. D.	H. E. Martin—Hamilton	
362	Neche Creamery Co.—Neche, N. D.	C. F. Lambert—McKenzie	
363	R. E. Cobb—St. Paul, Minn.	Hurley Bros.—Forman	
364	Hurley Bros.—Forman, Minn.	E. W. Dokson—Huff	
365	R. E. Cobb—St. Paul, Minn.	Kotterling John—Mercer	
366	R. E. Cobb—St. Paul, Minn.	J. A. Straud—Hampden	Otto Elsenman
367	Bridgeman-Russell—Duluth, Minn.	John Anan—Lundevood	Underwood
368	S. A. Stearns—Cleveland, N. D.	Herr & Thurn—Wiskek	
369	Miller & Holmes—St. Paul, Minn.	E. M. Larvick—Tevvik	
370	Bridgeman-Russell—Duluth, Minn.	Blum & Co.—Otter Creek	
371	E. M. Larvick—Tevvik, N. D.	Penner & Compell—Wyndmere	
372	Blum & Co.—Otter Creek, N. D.	A. L. Starr—Tower City	F. E. Little
373	R. E. Cobb—St. Paul, Minn.	Rognas & Lorenz—Rolla	Wyndmere
374	R. E. Cobb—St. Paul, Minn.	Cash Merc. Co.—Milnor	
375	R. E. Cobb—St. Paul, Minn.	H. M. Seethoff—Judson	
376	Milton Dairy Co.—St. Paul, Minn.	T. H. Nelson—Kintyre	
377	R. E. Cobb—St. Paul, Minn.	W. H. Claflin—Sweet Briar	
378	P. H. Nelson—Kintyre, N. D.	Samels Bros.—Martin	
379	R. E. Cobb—St. Paul, Minn.	Kjos Bros.—Wyndmere	
380	Samels Bros.—Minneapolis, Minn.	Wm. Saylor—Garrison	
381	Miller & Holmes—St. Paul, Minn.	Lichty Merc. Co.—Rock Lake	
382	Miller & Holmes—St. Paul, Minn.	Peter McDouga—Moreton	
383	R. E. Cobb—St. Paul, Minn.	Theo. Everson—Stanley	
384	Milton Dairy Co.—St. Paul, Minn.	A. P. Lies—Cathay	
385	A. F. Lies—Cathay, N. D.	Oriska Cash—Oriska	
386	R. E. Cobb—St. Paul, Minn.	Morris Fleck—Canfield	Abe Tolchinsky
387	Baldwin Creamery Co.—Baldwin, N. D.	John Hoffman—Ashley	Canfield
388	John Hoffman—Ashley, N. D.	W. L. King—Woodworth	
389	R. E. Cobb—St. Paul, Minn.	Velt Bros.—Moreton	J. Kushner
390	Milton Dairy Co.—St. Paul, Minn.	A. A. Haas—Turtle Lake	
391	DeSota Creamery & Produce Co.—Minneapolis, Minn.	Vie & Long—Braddock	
392	R. E. Cobb—St. Paul, Minn.	C. Haas—Turtle Lake	
393	Eidsvold Creamery Co.—Minneapolis, Minn.	J. A. Herr—McClusky	
394	Haas & Son—Turtle Lake, N. D.	M. Miller—Wilton	
395	R. E. Cobb—St. Paul, Minn.	Abe Kritzman—Lehr	
396	R. E. Cobb—St. Paul, Minn.	Farmers Merc. Co.—Hutton	
397	Eidsvold Creamery Co.—Minneapolis, Minn.	N. O. Sanden & Co.—Donnybrook	
398	Bridgeman-Russell—Duluth, Minn.	H. G. Bundy—Voltaire	
399	N. O. Sanden & Co.—Donnybrook, N. D.	Alfred J. Hage—Veha	
400	R. E. Cobb—St. Paul, Minn.		
401	R. E. Cobb—St. Paul, Minn.		

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1912—Continued

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
402	Miller & Holmes—St. Paul, Minn.	Gottlieb Herr—Wiahek	J. H. McGlivery Blaisdell E. J. Talbot
403	Miller & Holmes—St. Paul, Minn.	Delager, Koenig & Lalagen—Forbes	
404	Miller & Holmes—St. Paul, Minn.	Clov & Hendricks—Merricourt	
405	Bridgeman-Russell—Duluth, Minn.	E. A. Markell—Rolls	
406	Bridgeman-Russell—Duluth, Minn.	T. R. Hannah—Palermo	
407	Bridgeman-Russell—Duluth, Minn.	J. I. Lerum & Son—Buxton	
408	Bridgeman-Russell—Duluth, Minn.	J. C. Walther—Berthold	
409	Bridgeman-Russell—Duluth, Minn.	Geo. L. Farman—Hamilton	
410	Bridgeman-Russell—Duluth, Minn.	Neison & Goebel—Blaisdell	
411	Bridgeman-Russell—Duluth, Minn.	J. Charlson—Tagus	
412	R. E. Cobb—St. Paul, Minn.	Carrington Merc. Co.—Carrington	E. G. Wittmayer Anamoose
413	R. E. Cobb—St. Paul, Minn.	J. H. Gamba—Pettibone	
414	R. E. Cobb—St. Paul, Minn.	L. M. Doerschlag & Co.—Braddock	
415	Ashley Milling Co.—Ashley, N. D.	John Weber—Ashley	
416	R. E. Cobb—St. Paul, Minn.	Max Miller—Anamoose	
417	R. E. Cobb—St. Paul, Minn.	J. W. Robinson & Co.—Coleharbor	Joseph Public Linton
418	R. E. Cobb—St. Paul, Minn.	E. W. Spencer—Oberon	
419	R. E. Cobb—St. Paul, Minn.	Mrs. G. W. Fluga—Montpelier	
420	Miller Holmes—St. Paul, Minn.	Richard Sautter—Linton	
421	Wm. Koepplin—Lehr, N. D.	Wm. Koepplin—Lehr	
422	R. E. Cobb—St. Paul, Minn.	Geo. L. Robinson—Garrison	P. L. Patterson Leith
423	Miller & Holmes—St. Paul, Minn.	Wm. Beck—Lehr	
424	Dakota Produce Co.—Aberdeen, S. D.	John Beck—Zeeland	
425	R. E. Cobb—St. Paul, Minn.	Hattie Spiltoesser—Bowdon	
426	Eidsvold Creamery Co.—Minneapolis, Minn.	J. Standenmeyer—Sykeston	
427	R. E. Cobb—St. Paul, Minn.	Jos. A. Warm—Tuttle, N. D.	
428	Dakota Produce Co.—Aberdeen, S. D.	Aug. Johnson—New Lelpzig	
429	Dakota Produce Co.—Aberdeen, S. D.	J. B. Bartel—Raleigh	
430	Dakota Produce Co.—Aberdeen, S. D.	L. C. Lechammer—Leith	
431	Dakota Produce Co.—Aberdeen, S. D.	W. P. Obern—Shields	
432	F. W. Youngberg—Gwinner, N. D.	F. W. Youngberg—Gwinner	J. L. Patterson Leith
433	Redfield Produce Co.—Redfield, S. D.	Christian Haring—Hague	
434	Dakota Produce Co.—Aberdeen, S. D.	F. L. Huckler—Bentley	
435	Eidsvold Creamery Co.—Minneapolis, Minn.	J. D. Hanson—Turtle Lake	
436	Eidsvold Creamery Co.—Minneapolis, Minn.	Gottfried Dobiec—Venturia	
437	Bridgeman-Russell—Duluth, Minn.	Harland Hardware Co.—Harland	J. L. Patterson Leith
438	Bridgeman-Russell—Duluth, Minn.	M. V. Anderson—Mylo	
439	Bridgeman-Russell—Duluth, Minn.	W. W. King & Co.—Tower City	

440	G. C. Gehon—Bristol, S. D.	Wm. Kilbar—Zealand	Wm. J. Pettis Hazelton
441	R. E. Cobb—St. Paul, Minn.	J. T. Nelson—Dodge	
442	Dakota Produce Co.—Aberdeen, S. D.	J. R. Johnson—New England	
443	R. E. Cobb—St. Paul, Minn.	Gooley & Hoemer—Dunseith	
444	Mrs. Anna Bettger—Hazleton, N. D.	Mrs. Anna Bettger—Hazelton	
445	Bridgeman-Russell—Duluth, Minn.	Lofgren Bros.—Wheeler	
446	Bridgeman-Russell—Duluth, Minn.	P. A. Peterson—Lisbon	
447	Bridgeman-Russell—Duluth, Minn.	A. R. Holverson—Buxton	
448	Miller & Holmes—St. Paul, Minn.	C. J. Askegaard—Sheldon	
449	A. L. Hanson—Fairmount	A. L. Hanson—Sonora	
450	Miller & Holmes—St. Paul, Minn.	Fairmount Produce Co.—Fairmount	
451	Bridgeman-Russell—Duluth, Minn.	J. A. Robinson—Anselm	
452	R. E. Cobb—St. Paul, Minn.	Barber & Wergin—Heaton	
453	Milton Dairy Co.—St. Paul, Minn.	P. J. Perry—Pinegrove	
454	Milton Dairy Co.—St. Paul, Minn.	C. A. Evenson—Wallum	
455	F. B. Mastel & Son—Hague, N. D.	C. B. Mastel & Son—Hague	
456	R. E. Cobb—St. Paul, Minn.	C. W. Pollock—Fingal	
457	Edsvold Creamery Co.—Minneapolis, Minn.	Taylor-Baldwin Co.—Garrison	
458	R. E. Cobb—St. Paul, Minn.	John L. Schneider—Napoleon	
459	R. E. Cobb—St. Paul, Minn.	O. L. Schulstad—Forbes	
460	R. E. Cobb—St. Paul, Minn.	J. P. Ulrich—Cathay	
461	R. E. Cobb—St. Paul, Minn.	Dazey Co-Operative Store—Dazey	
462	R. E. Cobb—St. Paul, Minn.	Jens Pederson—Milnor	
463	Miller & Holmes—St. Paul, Minn.	A. J. Rott—Gackle	Hardy Bros. Cathay
464	Wales Co-Operative Creamery Co.—Wales, N. D.	Helge T. Ellenson—Union	
465	Grosz Bros.—Kulm, N. D.	C. Rowdink—Westfield	
466	C. Rowdink—Westfield, N. D.	Gottlieb Wendland—Witch	
467	Ashley Creamery Co.—Ashley, N. D.	M. G. Frank—Wishek	A. A. Golden A. Berwick Morris Flack Wing
468	Bridgeman-Russell—Duluth, Minn.	M. Evenson—Berwick	
469	Bridgeman-Russell—Duluth, Minn.	Iver A. Lestrud—Edmore	
470	R. E. Cobb—St. Paul, Minn.	G. Turney—Wing	
471	R. E. Cobb—St. Paul, Minn.	Morris Flack—Canfield	
472	R. E. Cobb—St. Paul, Minn.	W. P. Brougher—Havana	
473	Ashley Creamery Co.—Ashley, N. D.	A. Annerback—Wishek	
474	Ashley Creamery Co.—Ashley, N. D.	Carl Saylor—Danzig	
475	Bridgeman-Russell—Duluth, Minn.	J. S. Anthony—Lawton	
476	Bridgeman-Russell—Duluth, Minn.	Farmers Merc. Co.—Milton	
477	Lieberg Mercantile Co.—Kempston, N. D.	Lieberg Merc. Co.—Kempston	
478	M. F. Hegge—Hutton, N. D.	M. F. Hegge—Hutton	
479	R. R. Spitzer—Ashley, N. D.	R. R. Spitzer—Ashley	A. E. Olson Ryder
480	R. E. Cobb—St. Paul, Minn.	S. A. Olson—Ryder	
481	R. E. Cobb—St. Paul, Minn.	C. L. Orris—Easby	
482	Fargo Ice Cream & Dairy Co.—Fargo, N. D.	James Weaver—Lisbon	
483	Miller & Holmes—St. Paul, Minn.	Chris Gorder—Kintyre	
484	Dakota Produce Co.—Aberdeen, S. D.	Carl Langfeld—Lidgerwood	
485	Mott Creamery Co.—Mott, N. D.	N. R. St. Marie—Regent	
486	Mott Creamery Co.—Mott, N. D.		

LIST OF CREAM STATIONS LICENSED FOR TERM ENDING JUNE 30, 1912—Continued

No.	To Whom Issued—Address	Whom Authorized—Address	Sub. Author.
486	R. E. Cobb—St. Paul, Minn.	Mrs. J. W. King—Hurdsville	C. A. Henlner Hurdsville
487	Bridgeman-Russell—Duluth, Minn.	F. J. Wellentin—Alice	
488	Bridgeman-Russell—Duluth, Minn.	Tuskind Bros.—Davenport	
489	Bridgeman-Russell—Duluth, Minn.	Trotter-Syverud Co.—Onabrock	
490	White Ice Cream Co.—Minot, N. D.	Geo. J. Munna—Eckman	
491	Bridgeman-Russell—Duluth, Minn.	E. H. A. Fischer—Kelley	
492	Bridgeman-Russell—Duluth, Minn.	John Larson—DeLanere	
493	Bridgeman-Russell—Duluth, Minn.	Torgenson & Swenson—Epping	
494	Bridgeman-Russell—Duluth, Minn.	Leharz Lefke Co.—Blabee	
495	Bridgeman-Russell—Duluth, Minn.	F. S. Chamberlain—Doyon	
496	John Becker—Cleveland, N. D.	John Becker—Cleveland	
497	Henningson Creamery Co.—Minot, N. D.	Steve Weber—Harvey	
498	Jacob Knopp—Gackle, N. D.	Jacob Knopp—Gackle	
499	Bridgeman-Russell—Duluth, Minn.	G. G. Anderson—Oriska	
500	I. O. Flaten—Rolette, N. D.	I. O. Flaten—Rolette	
501	John Bros. & Son—Leonard, N. D.	John Bros. & Son—Leonard	
502	Bridgeman-Russell—Duluth, Minn.	C. R. Rucker—Dresden	
503	Bridgeman-Russell—Duluth, Minn.	K. C. Wangrud—Litchville	
504	Bridgeman-Russell—Duluth, Minn.	A. H. Pung—Callo	
505	Bridgeman-Russell—Duluth, Minn.	Wellan-Tyhrus Co.—Mayville	
506	R. E. Cobb—St. Paul, Minn.	J. A. Robinson—Anselm	
507	Naftelen Bros.—Buffalo, N. D.	Naftelen Bros.—Buffalo	
508	Miller & Holmes—St. Paul, Minn.	Paul Futag—Max	
509	Bridgeman-Russell—Duluth, Minn.	H. Sandberg—Lignite	
510	J. J. Munn Co.—St. Paul, Minn.	Rigler & Rosen—Sweet Briar	
511	E. L. Larson & Co.—McLeod, N. D.	E. L. Larson & Co.—McLeod	
512	Henningson Creamery Co.—Minot, N. D.	C. Kirchen—Lansford	
513	E. J. Thompson—Coulee, N. D.	E. J. Thompson—Coulee	
514	Woods & McKenna—Coulee, N. D.	Woods & McKenna—Coulee	
515	R. E. Cobb—St. Paul, Minn.	W. Torgenson Co.—Portland	
516	Henningson Creamery Co.—Minot, N. D.	H. E. Pederson—Palermo	
517			L. M. Mitchell Lansford
Total amount of receipts at \$10,000 per station for term ending June 30, 1912			\$ 2,390.00

SALARY DAIRY COMMISSIONER

Warrant Number	Issued to	Date	Amount
89279	R. F. Flint	July 1, 1910.....	150.00
89821	R. F. Flint	Aug. 3, 1910.....	150.00
90141	R. F. Flint	Aug. 22, 1910.....	150.00
90792	R. F. Flint	Oct. 1, 1910.....	150.00
91382	R. F. Flint	Nov. 3, 1910.....	150.00
92115	R. F. Flint	Dec. 6, 1910.....	150.00
92207	R. F. Flint	Dec. 20, 1910.....	150.00
93390	R. F. Flint	Feb. 1, 1911.....	150.00
94175	R. F. Flint	Mch. 1, 1911.....	150.00
94843	R. F. Flint	Apr. 1, 1911.....	150.00
96704	R. F. Flint	May 2, 1911.....	150.00
98735	R. F. Flint	June 1, 1911.....	150.00
98600	R. F. Flint	July 1, 1911.....	150.00
99066	R. F. Flint	Aug. 1, 1911.....	150.00
99871	R. F. Flint	Sept. 1, 1911.....	150.00
100549	R. F. Flint	Oct. 2, 1911.....	150.00
101684	R. F. Flint	Nov. 1, 1911.....	150.00
102452	R. F. Flint	Dec. 2, 1911.....	150.00
103125	R. F. Flint	Dec. 23, 1911.....	150.00
104014	R. F. Flint	Feb. 1, 1912.....	150.00
104742	R. F. Flint	Mch. 1, 1912.....	150.00
105522	R. F. Flint	Mch. 1, 1912.....	150.00
105522	R. F. Flint	Apr. 1, 1912.....	150.00
106522	R. F. Flint	May 1, 1912.....	150.00
107522	R. F. Flint	June 3, 1912.....	150.00
Total			3,600.00

SALARY ASSISTANT DAIRY COMMISSIONER

Warrant Number	Issued to	Date	Amount
89314	E. H. Pierce	July 5, 1910.....	125.00
89824	E. H. Pierce	Aug. 4, 1910.....	125.00
90220	E. H. Pierce	Sept. 1, 1910.....	125.00
90870	E. H. Pierce	Oct. 3, 1910.....	125.00
91383	E. H. Pierce	Nov. 3, 1910.....	125.00
92190	E. H. Pierce	Dec. 20, 1910.....	125.00
92208	E. H. Pierce	Dec. 20, 1910.....	125.00
93632	E. H. Pierce	Feb. 4, 1911.....	125.00
94153	E. H. Pierce	Mch. 1, 1911.....	125.00
94961	E. H. Pierce	Apr. 3, 1911.....	125.00
96663	E. H. Pierce	May 1, 1911.....	125.00
97836	E. H. Pierce	June 1, 1911.....	125.00
98601	E. H. Pierce	July 1, 1911.....	125.00
99048	E. H. Pierce	July 29, 1911.....	125.00
100023	E. H. Pierce	Sept. 5, 1911.....	125.00
100560	E. H. Pierce	Oct. 2, 1911.....	125.00
101713	E. H. Pierce	Nov. 1, 1911.....	125.00
102453	E. H. Pierce	Dec. 2, 1911.....	125.00
103253	E. H. Pierce	Jan. 3, 1912.....	125.00
104015	E. H. Pierce	Feb. 1, 1912.....	125.00
104673	E. H. Pierce	Feb. 29, 1912.....	125.00
105551	E. H. Pierce	Apr. 1, 1912.....	125.00
106523	E. H. Pierce	May 1, 1912.....	125.00
107520	E. H. Pierce	June 3, 1912.....	125.00
Total			\$ 3,000.00

REPORT OF DAIRY COMMISSIONER

DAIRY COMMISSIONER

Number	Issued to	Date	Amount
89432	R. F. Flint	July 7, 1910	32.50
89433	E. H. Pierce	July 1, 1910	52.35
89502	Western Union Tel. Co.	July 7, 1910	1.00
89508	Northern Express Co.	July 7, 1910	1.85
89696	C. E. Straw	July 22, 1910	50.00
89832	Bismarck Tribune Co.	Aug. 4, 1910	14.00
89840	Soo R'y	Aug. 5, 1910	0.80
89861	E. H. Pierce	Aug. 10, 1910	58.00
90127	A. G. Patterson, P. M.	Aug. 17, 1910	21.84
90218	C. E. Straw	Sept. 1, 1910	75.00
90381	R. F. Flint	Sept. 16, 1910	46.10
90382	R. F. Flint	Sept. 16, 1910	27.75
90383	E. H. Pierce	Sept. 16, 1910	48.55
90571	Elov Erickson	Sept. 17, 1910	3.25
90616	Western Union Tel. Co.	Sept. 20, 1910	1.12
90650	No. Dak. Independent Tel. Co.	Sept. 20, 1910	1.50
90651	No. Dak. Independent Tel. Co.	Sept. 20, 1910	1.35
90661	Bismarck Tribune Co.	Sept. 20, 1910	9.50
90826	C. E. Straw	Oct. 1, 1910	75.00
90811	A. G. Patterson, P. M.	Oct. 18, 1910	42.48
90842	F. R. Flint	Oct. 24, 1910	29.25
90433	E. H. Pierce	Oct. 24, 1910	50.65
91126	P. H. Olson	Oct. 24, 1910	25.00
91168	Chicago Case Mfg. Co.	Oct. 25, 1910	12.00
91169	J. M. Hein	Oct. 25, 1910	10.00
91170	A. H. Barber Creamery S. Co.	Oct. 25, 1910	23.80
91187	Western Union Tel. Co.	Oct. 25, 1910	1.45
91332	C. S. Straw	Nov. 1, 1910	75.00
91405	Northern Express Co.	Nov. 5, 1910	0.35
91598	R. F. Flint	Nov. 21, 1910	135.35
91607	E. H. Pierce	Nov. 21, 1910	57.15
91703	Hans Larson	Nov. 25, 1910	56.00
91876	C. E. Straw	Dec. 1, 1910	75.00
92009	C. H. Olsen	Dec. 2, 1910	30.00
92103	Western Badge & N. Co.	Dec. 5, 1910	27.50
92116	A. G. Patterson, P. M.	Dec. 6, 1910	50.00
92209	C. E. Straw	Dec. 20, 1910	75.00
92353	E. H. Pierce	Dec. 22, 1910	53.65
92354	R. F. Flint	Dec. 22, 1910	134.25
92529	Northern Express Co.	Dec. 23, 1910	1.85
93535	No. Dak. Independent Tel. Co.	Dec. 23, 1910	2.25
92652	No. Dak. Independent Tel. Co.	Dec. 27, 1910	1.45
92658	No. Dak. Independent Tel. Co.	Dec. 27, 1910	1.45
92667	No. Dak. Independent Tel. Co.	Dec. 27, 1910	4.95
92755	Times Pub. Co.	Jan. 11, 1911	2.50
92780	Northern Express Co.	Jan. 16, 1911	0.55
92796	R. F. Flint	Jan. 16, 1911	16.60
92970	Huckbee Mears Co.	Jan. 23, 1911	41.15
93268	Western Union Tel. Co.	Jan. 25, 1911	0.62
93480	E. H. Pierce	Feb. 3, 1911	6.50
93641	The Dairy Record	Feb. 4, 1911	4.50
93976	Northern Express Co.	Feb. 15, 1911	2.75
94626	R. F. Flint	Mch. 13, 1911	36.70
94627	R. F. Flint	Mch. 13, 1911	69.86
94628	Buckbee Mears Co.	Mch. 13, 1911	12.10
94629	E. H. Pierce	Mch. 13, 1911	22.65
94630	E. H. Pierce	Mch. 13, 1911	35.15
94640	Northern Express Co.	Mch. 15, 1911	1.80
94701	Western Union Tel. Co.	Mch. 16, 1911	1.18
94853	C. E. Straw	Apr. 1, 1911	75.00
95236	E. H. Pierce	Apr. 6, 1911	60.70
96414	No. Dak. Independent Tel. Co.	Apr. 22, 1911	1.05
96496	Western Union Tel. Co.	Apr. 26, 1911	1.88
96664	C. E. Straw	May 1, 1911	75.00
96993	A. G. Patterson, P. M.	May 11, 1911	64.32
97021	R. F. Flint	May 11, 1911	103.50
97144	Western Union Tel. Co.	May 12, 1911	1.07
97677	E. H. Pierce	May 23, 1911	35.90
97837	C. E. Straw	June 1, 1911	75.00

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97869	No. Dak. Independent Tel. Co.—June 1, 1911.....	1.60
97886	Hoskins Stationery Co. —June 2, 1911.....	2.75
98098	R. F. Flint—June 12,	67.45
98099	E. H. Pierce—June 12, 1911	52.10
98295	No. Dak. Independent Tel. Co.—June 19, 1911.....	4.95
98296	Northern Express Co.—June 19, 1911.....	0.75
98303	Western Union Tel. Co.—June 19, 1911.....	2.67
Total		\$ 2,387.31

DAIRY COMMISSIONER

Warrant Number	Issued to Date	Amount
98002	C. E. Straw—July 1, 1911.....	75.00
98859	M. St. P. & S. S. M. R'y.—July 5, 1911.....	1.15
98913	A. G. Patterson P. M.—July 7, 1911	21.24
98939	Western Union Tel. Co.—July 8, 1911.....	2.45
98943	Northern Express Co.—July 8, 1911.....	0.35
98985	A. G. Patterson, P. M.—July 24, 1911.....	21.84
99067	C. E. Straw—Aug. 1, 1911.....	75.00
99202	E. H. Pierce—Aug. 4, 1911.....	65.25
99203	E. H. Pierce—Aug. 4, 1911.....	71.40
99204	No. Dak. Independent Tel. Co.—Aug. 4, 1911.....	8.20
99205	Buckbee-Mears Co.—Aug. 4, 1911.....	15.31
99206	R. F. Flint—Aug. 4, 1911.....	59.35
99286	News Printing Co.—Aug. 4, 1911.....	11.60
99287	Pioneer Pub. Co.—Aug. 4, 1911.....	28.25
99288	Herald Pub. Co.—Aug. 4, 1911.....	7.00
99534	Western Union Tel. Co.—Aug. 16, 1911.....	0.25
99661	R. F. Flint—Aug. 25, 1911.....	83.27
99694	Knowles & Haney—Aug. 26, 1911.....	24.80
99872	C. E. Straw—Sept. 1, 1911.....	75.00
100150	Pioneer Pub. Co.—Sept. 11, 1911.....	17.75
100173	Northern Express Co.—Sept. 13, 1911.....	1.10
100382	Western Union Tel. Co.—Sept. 20, 1911.....	1.25
100385	Bismarck Tribune Co.—Sept. 20, 1911.....	9.50
100408	M. St. P. & S. S. M. R'y. Co.—Sept. 26, 1911.....	0.52
100415	No. Dak. Independent Tel. Co.—Sept. 26, 1911.....	4.45
100551	C. E. Straw—Oct. 2, 1910.....	75.00
100703	R. F. Flint—Oct. 9, 1911.....	33.10
100704	E. H. Pierce—Oct. 9, 1911.....	93.10
100705	E. H. Pierce—Oct. 9, 1911.....	32.30
101334	Hoskins Stationery Co.—Oct. 18, 1911.....	1.95
101520	No. Dak. Independent Tel. Co.—Oct. 21, 1911.....	2.50
101545	Western Union Tel. Co.—Oct. 23, 1911.....	2.10
101577	M. St. P. & S. S. M. R'y. Co.—Oct. 31, 1911.....	0.40
101685	C. E. Straw—Nov. 1, 1911.....	75.00
101723	A. G. Patterson, P. M.—Nov. 4, 1911.....	31.00
101761	Northern Express Co.—Nov. 9, 1911.....	2.05
101799	R. F. Flint—Nov. 13, 1911.....	15.85
101800	E. H. Pierce—Nov. 13, 1911.....	12.00
101893	A. G. Patterson, P. M.—Nov. 17, 1911.....	21.24
101900	Hoskins Stationery Co.—Nov. 17, 1911.....	67.31
102045	A. G. Patterson, P. M.—Nov. 24, 1911.....	42.88
102468	C. E. Straw—Dec. 4, 1911.....	75.00
102702	R. F. Flint—Dec. 9, 1911.....	50.59
102703	E. H. Pierce—Dec. 9, 1911.....	42.55
102749	Northern Express Co.—Dec. 11, 1911.....	1.35
103020	Wm. Engel—Dec. 21, 1911.....	5.00
102021	Henry Swenson—Dec. 21, 1911.....	5.00
103022	L. A. Granuke—Dec. 21, 1911.....	15.00
103023	Phillip Palmer—Dec. 21, 1911.....	25.00
103126	C. E. Straw—Dec. 23, 1911.....	75.00
103194	Western Express Co.—Dec. 30, 1911.....	0.70
103338	No. Dak. Independent Tel. Co.—Jan. 3, 1912.....	2.65
103339	No. Dak. Independent Tel. Co.—Jan. 3, 1912.....	0.85

DAIRY COMMISSIONERS

Warrant Number	Issued to Date	Amount
103449	R. F. Flint—Jan. 15, 1912.....	67.70
103450	E. H. Pierce—Jan. 15, 1912.....	8.25
103548	Times Pub. Co.—Jan. 20, 1912.....	14.25
103563	Northern Express Co.—Jan. 20, 1911.....	1.75
103590	No. Dak. Independent Tel. Co.—Jan. 22, 1912.....	2.25
103591	No. Dak. Independent Tel. Co.—Jan. 22, 1912.....	1.30
103608	Western Union Tel. Co.—Jan. 22, 1912.....	2.40
103714	W. E. Butler—Jan. 23, 1912.....	5.25
103774	M. St. P. & S. S. M. R'y.—Jan. 24, 1912.....	2.07
104013	C. E. Straw—Feb. 1, 1912.....	75.00
104279	R. F. Flint—Feb. 17, 1912.....	83.95
104296	Northern Express Co.—Feb. 19, 1912.....	1.70
104379	E. H. Pierce—Feb. 20, 1912.....	9.80
104382	Western Union Tel. Co.—Feb. 20, 1912.....	1.68
104533	Holmboe Studio—Feb. 23, 1912.....	5.00
104743	C. E. Straw—Mch. 1, 1912.....	75.00
104899	E. H. Pierce—Mch. 11, 1912.....	65.86
105237	Northern Express Co.—Mch. 20, 1912.....	1.25
105253	Western Union Tel. Co.—Mch. 22, 1912.....	17.03
105523	C. E. Straw—Apr. 1, 1912.....	75.00
105673	E. H. Pierce—Apr. 4, 1912.....	55.60
105674	R. F. Flint—Apr. 4, 1912.....	55.55
106030	A. G. Patterson, P. M.—Apr. 11, 1912.....	21.00
106163	Northern Express Co.—Apr. 13, 1912.....	0.50
106221	Jno. Christiansen—Apr. 16, 1912.....	75.45
106302	M. St. P. & S. S. M. R'y.—Apr. 24, 1912.....	1.21
106310	N. D. Independent Tel. Co.—Apr. 24, 1912.....	1.35
106311	N. D. Independent Tel. Co.—Apr. 24, 1912.....	2.95
106417	A. G. Patterson, P. M.—Apr. 29, 1912.....	42.72
106524	C. E. Straw—May 1, 1912.....	75.00
106574	Western Union Tel. Co.—May 3, 1912.....	1.18
106795	Creamery Packing Co.—May 11, 1912.....	5.65
106796	Buckbee-Mears Co.—May 11, 1912.....	15.81
106904	E. H. Pierce—May 13, 1912.....	46.25
107040	Times Pub. Co.—May 18, 1912.....	10.75
107044	R. F. Flint—May 18, 1912.....	44.35
107089	Northern Express Co.—May 21, 1912.....	1.20
107324	Mrs. E. H. Pierce—May 28, 1912.....	4.20
107475	C. E. Straw—June 1, 1912.....	75.00
107665	Western Union Tel. Co.—June 4, 1912.....	4.00
107824	Northern Express Co.—June 13, 1912.....	2.10
107935	R. F. Flint—June 15, 1912.....	36.05
107936	E. H. Pierce—June 15, 1912.....	39.15
108184	N. Dak. Independent Tel. Co.—June 18, 1912.....	3.10
108185	N. Dak. Independent Tel. Co.—June 18, 1912.....	4.50
108186	N. Dak. Independent Tel. Co.—June 18, 1912.....	2.40
108195	Western Union Tel. Co.—June 19, 1912.....	1.35
108256	Walsh Co. Record—June 24, 1912.....	9.50
108293	Times Pub. Co.—June 24, 1912.....	33.75
108294	Times Pub. Co.....	4.00
108303	Bismarck Tribune—June 24, 1912.....	5.75
Total		\$ 2,682.91

REPORTS.

The reports of the business done, the creameries and cream stations are required to make monthly, to this department, have in numerous instances been difficult to secure, therefore our data for some stations, creameries, or towns is not as large as it might or should be.

A few individuals still maintain that the state or dairy department has no right to require of them data regarding their private business. Our experience has borne out the truth of a statement made by a former Attorney General in an opinion regarding the legality of the law requiring monthly reports: "You may rest assured the more opposition offered to a compliance with the terms of this law may be considered the greater reason why they should be compelled to comply with it." This applies as to the apparent lack of business management and bookkeeping, to discrimination in prices, and manipulation of tests.

Those who are honest in their business methods have nothing to fear from supplying the office with the information required in the monthly report blanks. Those who are not employing business principles should be required to make reports that they may learn for themselves how their business is going, as without a monthly checking up system, leaks and losses may continue indefinitely.

Compliance with the report requirements is gradually improving and our data from such sources is more reliable. On the other hand there is a large percentage of cream going out of the state by direct shipment that this office receives no reports of except possibly from the creameries receiving same. They do not always have this data available.

In the following tables we have added ten percent to the business of creameries and cream stations to offset reports not received, and therefore incomplete data.

The figures on "Direct Shippers" is based on a known percentage of cream received and money paid by one firm to the direct shippers compared to their business through cream stations, the former being approximately twenty five percent of the latter.

SUMMARY DAIRY PRODUCTS—FISCAL YEAR ENDING JUNE 30, 1911.

	Milk	Cream	Butterfat	Butter Made	Cheese	Received by Producers or Value.
In creameries,	5,005,949	12,641,477	3,456,133	4,045,292	.....	\$ 828,655.02
Cream stations, .....	.....	.....	977,582	.....	.....	242,233.20
Direct shipment of cream, .....	.....	.....	241,975	.....	.....	55,053.01
Butter made in families, .....	.....	.....	.....	9,611,307	.....	2,407,841.75
Cheese made in families,	887,964	.....	.....	.....	73,997	11,839.52
Received from milk and cream sold other than specified .....	.....	.....	.....	.....	.....	270,592.00
Total,	5,893,913	12,641,477	4,645,690	13,656,659	73,997	\$ 3,811,214.50

No. of cows milking in 1911 168,788

SUMMARY DAIRY PRODUCTS—FISCAL YEAR ENDING JUNE 30, 1912.

	Milk	Cream	Butterfat	Butter Made	Cheese	Received by Producers or Value
In creameries,	4,222,852	11,369,460	3,615,241	3,866,034	.....	\$ 866,419.45
Cream Stations, .....	.....	.....	209,290	.....	.....	779,715.44
Direct Shippers, .....	.....	.....	729,384	.....	.....	177,208.05
Butter made in families, .....	.....	.....	.....	10,040,210	.....	2,510,652.50
Cheese made in families,	411,480	.....	.....	.....	34,290	5,486.40
Received from milk and cream sold, other than specified .....	.....	.....	.....	.....	.....	387,454.00
Total,	4,634,332	11,369,460	7,553,915	13,906,244	34,290	\$ 4,726,335.84

Number of cows milking in 1912, 181,756.

SUM OF EXPENDITURES AND RECEIPTS FOR THE
BIENNIAL PERIOD.

EXPENDITURES.

Salary Dairy Commissioner 1910-11.....	\$ 1,800.00
Salary Assistant Dairy Commissioner 1910-11.....	1,500.00
General Expense 1910-11,	2,367.31
Salary Dairy Commissioner 1911-12,	1,800.00
Salary Assistant Dairy Commissioner, 1911-12,	1,500.00
General Expense 1911-12,	2,682.91
Total,	\$ 11,650.22

RECEIPTS.

1910-11 Creamery License Fees,	830.00
1910-11 Cream Station License Fees,	1,800.00
1911-12 Creamery License Fees,	870.00
1911-12 Cream Station License Fees	2,390.00
Total,	\$ 5,890.00

CONCLUSION.

Many farmers and the business interests of the state are now thoroughly interested in dairying, and this department should, by legislative enactment, be provided with sufficient funds and assistants so that the aid requested by dairymen may be rendered whenever and wherever it is practicable.

During the past two years we have not been able to do this even with the co-operation we were able to secure from the Federal Dairy Department. In the work of assisting in silo construction it will be impossible for the present numerical force to aid all who have entered requests for next season. It may be wise to so frame legislation that additional men may be put on the department force during the summer season, but on the whole, considering the demands for speakers at winter dairy meetings and the difficulty of securing competent assistants for only a portion of the time, it seems to me that a permanent position would ensure greater satisfaction, to all concerned.

Requests for aid in planning new, and remodeling old dairy barns, dairies and creameries are more frequently received. Assistance from our department has resulted in better sanitary, greater permanency, and more convenient conditions, at little if any increase in first cost than would have resulted without such aid. This work should be extended.

Inspection and regulation of dairies, creameries, cream stations is demanding more attention as they, especially the latter, have increased very rapidly.

Our creameries have, and are still having a great deal of difficulty in securing competent buttermakers and business managers. There should be a practical working creamery established at some point in the state, preferably at the Agricultural College, where buttermaking, creamery management, and creamery book-keeping may be taught, and home men trained for this important work.

The discriminatory low long-distance express rate on cream has encouraged and aided individuals and corporations in adjoining states to solicit cream in our state. Discriminatory competition is possible against local creameries by the centralizers through their numerous cream station agents established at points surrounding the territory of such local plants. Honest business men may easily and without their knowledge be made a party in the centralizers plan of discrimination, by following instructions to pay stipulated prices for cream at the cream stations they operate. We need a larger force in order that the charges of such discrimination may be investigated, evidence secured, and the pernicious methods checked. Again, quotations are sent to our farmers, by mail, the cream shipped direct, and the sales con-

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